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The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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To give satisfaction in every detail should be the nurseryman's unremitting endeavor.

Vol. XI.

ROCHESTER, N. Y., JANUARY, 1903.

No. 1.

IN HONOR OF MR. ELLWANGER.

Eighty-sixth Birthday of the Venerable Head of the Firm of Ellwanger & Barry—Distinguished Guests Present—Joseph O'Connor Toastmaster—Mr. Ellwanger's Brief Greeting—Remarks by His Son, George H. Ellwanger.

The eighty-sixth birthday of George Ellwanger, of Ellwanger & Barry, was observed, according to custom, at a banquet at the Genesee Valley club in Rochester, N. Y., on the evening of December 2d. The host was the venerable citizen whose name has become so closely connected with the interests and life of Rochester. The occasion was also the birthday of the Hon. Frederick Cook, who sat at the left of Mr. Ellwanger, and who claims with the host Germany as his native land.

The guests were representative of all that is best in the life of the city in its religious, educational, business and social phases. The menu contained these two stanzas across the branches of a grand old oak, written by Samuel Walter Foss:

Who loves a tree he loves the life
That springs in star and clod;
He loves the love that gilds the clouds
And greens the April sod.
He loves the wide beneficence,
His soul takes hold on God.

Ah! bare must be the shadeless ways,
And bleak the path must be,
Of him who, having open eyes,
Has never learned to see,
And so has never learned to love
The beauty of a tree.

While the dinner was in progress the orchestra played a new waltz, entitled "A Wind from Off the Sea," composed by the granddaughter of the host, Miss Laura B. Ellwanger.

The toastmaster was Joseph O'Connor. In the course of his brief introductory remarks he read a communication of thanks from the heads and sub-heads of the department of the Ellwanger & Barry nurseries, who at the same hour were enjoying a banquet, at which thirty-two of them were guests, set by the kindness and friendship of the same host. Some of these men have been in the employ of the company for more than thirty years, and their communication, said the toastmaster, was such that "nothing could be said about this board that could constitute a nobler tribute." The communication was as follows:

We, your employees, extend our most hearty thanks to you for the fine dinner we are now enjoying as your guests. Accept our congratulations on this, your eighty-sixth birthday, a day which we shall all remember with great pleasure. Our wish is that you may be spared in perfect health to further enjoy the fruits of your good work.

In concluding his opening address, Mr. O'Connor proposed a toast to Mr. Ellwanger, "and may the pledge express our

lasting respect, our constant friendship and our buoyant hope for the future."

In responding, Mr. Ellwanger said, in brief: "My friends, I give you my most hearty thanks, and wish you a very enjoyable evening."

Hon. Walter S. Hubbell said:

In the presence of this body of men representative of the city, it is not necessary for me to detail what the growth of Rochester has been. I am asked to weave the life of our host into the growth of the city. It is not alone with trepidation but with great joy that I assume the task.

I have heard some of the gentlemen now sitting about this table say that promiscuous immigration should be restrained. Not alone our host, but other gentlemen at this table, immigrants from Germany, from Ireland, from Scotland, and from other countries, demonstrate the fact that there is another side to this question. What would the city have done without the immigrants we have here to-night?

Our host was born at about the same time the village of Rochester was born. He came here about the time the city of Rochester was born. The young man from the Black Forest and the young man from Ireland, as the firm of Ellwanger & Barry, have made the city of Rochester known all over the world as the Flower City.

As much as Mr. Ellwanger has done for Rochester in the way of horticulture, am I mistaken when I say that the life of this pure-minded, even-dispositioned, great-hearted man has done more for the youth and the young people of this city than it ever did for horticulture? The best thing a city can have is a man of this character. May he tarry with us long, but when his time for departure comes his greatest legacy will be the character he has built up.

George H. Ellwanger, one of the sons of George Ellwanger, said:

I have but a word. I rise to thank you, not only on behalf of my father, but also of his partner, Patrick Barry, for the many expressions of good will, sincerity and good fellowship. To these I add my own personal thanks, and with my brother's consent, I enjoy his accord. May never a sense wane and never a heart yield up its golden store before every one here to-night has become "a fallen leaf."

SUGGESTION AS TO A NOVELTY.

E. E. Miller, of Hamblen County, Tenn., says in the Country Gentleman:

I wish to call attention to one of our common wild fruits which would seem to offer an engaging field for the plant breeder to work in. I refer to the papaw. This tree grows freely on a variety of soils, is quite hardy, soon reaches bearing age, and yields remarkably. I do not know that any use has yet been found for the fruit, except eating it as it grows; but I do not see why it could not be prepared in a variety of ways, and possibly be made to serve a distinct purpose in the distribution of our fruits and their products. Whether or not the papaw is at present a good thing is a matter of individual taste. If some of the seeds were bred out of it, however, and the flavor modified a little, it might become a really useful plant. I commend it to some enterprising nurseryman who wants a real novelty to offer the public.

The Hawks Nursery Co., Rochester, N. Y., has opened a branch office at Wauwatosa, Wis. T. J. Ferguson is the manager, assisted by Albert Hanson of Milwaukee. Business started off with a rush.

FREE SEEDS AND TREES.

Secretary of Agriculture Outlines the Purposes of the Department for the New Year—Will Distribute Seedling Trees to Schools Throughout the Country—Will Have More or Less Historic Interest—Publication Work.

The annual report of the Secretary of Agriculture for 1902 shows marked progress in many of the lines covered by this very active department. The Secretary declares his wish has been to carry out the will of Congress in the distribution of seeds, so as to result in the most good to the country. The Congressional distribution last year was the largest in the history of the Department, and particular attention was given to forage crop seed, cotton seed, tobacco seed and seed of other special crops. To still further increase the efficiency of the seed work, several new plans have been put into operation. Under the present system, the Department secures its own seed in the open market, contracting only for the mechanical work of packing and mailing the seed. Seedsmen are now co-operating with the Department in furnishing specialties and novelties. These will be distributed only so long as to make them thoroughly known, leaving the demand then to be met by the regular trade.

An effort will be made to secure and distribute seedling trees which have more or less historic interest, the seedlings when grown to be sent to schools throughout the country, each one accompanied by a concise statement setting forth the historic events connected with it.

With regard to forestry, tree planting, the Bureau has sought to enlist the interest of the private land owner. Up to the close of the last fiscal year 262 applications for assistance had been received, nearly 200,000 acres examined, and 224 plans made. Not only does example set by each plantation affect the neighborhood, but in many cases it has led to a public agitation of the question of tree planting, and extensive planting on other land has frequently followed.

The publication work of the Department has been unprecedentedly active. The total number of publications issued was 757. The total number of pages of new matter edited for publication was 18,184. The aggregate number of copies of all publications issued was 10,586,580. Of this number 6,150,000 were Farmers' Bulletins, and of these the Congressional distribution took 4,289,126. Including the Year-book and other reports paid for by special appropriations, the cost of the publication work amounts to about \$800,000, but the number of publications is still inadequate to supply the demand.

LICENSED IN WASHINGTON.

On December 10th consignments of fruit trees from the east were confiscated by Fruit Inspector W. H. Brown, of King County, Washington, on the ground that they were badly infested with wooly aphis, crown or root gall, blight, etc. The stock was condemned and burned. The number of trees was 1,500.

The laws of Washington are very strict. Following are the nursery firms licensed by the commissioner of horticulture, at Tacoma, Wash., to sell trees in that state (other than Washington firms):

Perry Nursery Co., Brown Brothers, Rochester, N. Y.; Missing Link Apple Co., Clayton, Ill.; Charles P. Hartley, Caldwell, Idaho; F. L. White, Moscow, Idaho; Stark Brothers Nursery and Orchard Co., Louisiana, Mo.; L. O. Berry, Troy, O.; H. I. Cauvel, Albert Brownell, A. Miller & Son, Milton, Ore.; W. H. Weber, The Dalles, Ore.; Buell, Lamberson & Sons, J. B. Pilkington, Portland, Ore.; H. W. Settlemire, Pacific Nursery Co., Tangent, Ore.; J. W. Borsch, Hillsdale, Ore.; Oregon Nursery Co., C. F. Lansing, Salem, Ore.; A. Holaday, Scappoose, Ore.; Russelville Nursery Co., Russelville, Ore.; T. V. Sluman, Mount Tabor, Ore. Fifty-four firms in Washington are licensed.

AMERICAN APPLE GROWERS' CONGRESS.

At this congress in St. Louis there was a remarkably fine display of Ben Davis, Mammoth Twig and Arkansas Black apples by Arkansas. These officers were elected: President, Senator H. M. Dunlap, Savoy, Ill.; vice-President, W. R. Wilkinson, St. Louis; secretary, T. C. Wilson, Hannibal, Mo.; treasurer, Wesley Green, Des Moines, Ia.; official statistician, Prof. J. T. Stinson, Mountain Grove, Mo., with ten state vice-presidents.

President Dunlap makes this statement regarding the purpose of the congress:

"The objects of the congress are to furnish reliable crop statistics to the members, based on actual amounts in number of barrels, and not on percentages. It will discuss business methods of harvesting, handling, shipping, and disposing of the crop and its products. It will endeavor to secure legislation necessary for the protection of the grower that will be uniform in the several states. It is also for the purpose of considering matters of transportation car service and of securing better methods in handling and reporting on consignments, and ultimately in investigating and reporting upon complaints, with a view of exposing dishonest methods and dishonest dealers.

"As a matter-of-fact, this organization is for the purpose of taking up the business end of fruit growing as it relates to the disposal of the apple crop and its products, much more than it is for the purpose of discussing methods of growing orchards, and such related subjects. This latter field is well covered by the state and local horticultural societies.

The second annual meeting of the congress will be held in St. Louis in November, 1903.

ORIGIN OF FAMOUS APPLES.

At the recent Shaw banquet in St. Louis, Albert Blair, responding to a toast said:

I am glad that the first Congress of American Apple Growers has been held in this city, in the State of Missouri. We owe much to other states for their achievements in apple culture. Massachusetts gave us the Baldwin, the apple so much prized by our friends in the east. New York gave us the Northern Spy and the Newtown Pippin, the latter said to be the king of apples. New Jersey gave us the Belleflower and the Maiden Blush. Virginia, the Albermarle Pippin and Grimes' Golden. Kentucky, the Ben Davis, unequalled for profit. Missouri has produced the Missouri Pippin and the Huntsman's Favorite, and is herself first in rank as the land of the big red apples and of the big yielding orchards that produce them.

Among Growers and Dealers.

The Cotta Nursery and Orchard Co., is now at Rockford, Ill.

G. A. Gamble has changed his address to Oklahoma City, Okla.

George Ruedy, Colfax, Washington, makes a specialty of nut trees.

Stephen Bull, Racine, Wis., has presented to that city 53 acres for a public park.

W. T. Hood, Richmond, Va., is vice-president of the Virginia Horticultural Society.

William Martin and R. E. Carruth have begun the nursery business at Comanche, Tex.

James M. Kennedy, Dansville, N. Y., called upon Rochester nurserymen early last month.

N. H. Albaugh is vice-president of the Montgomery County, Ohio, Horticultural Society.

Fred S. Phoenix, Bloomington, Ill., is secretary of the Central Illinois Horticultural Society.

The capital stock of the Great Northern Nursery Co., Baraboo, Wis., has been increased to \$50,000.

Cleveland, O., is to have a new cemetery, comprising 442 acres of land in Warrensville township.

The exports of nursery stock during October, 1902, were valued at \$10,158, against \$7,895, in October, 1901.

Nursery trees formed a part of the exhibit at the recent annual meeting of the Maryland Horticultural Society.

Orlando Harrison, Berlin, Md., is county vice-president of the Maryland Horticultural Society, for Worcester county, Mo.

The city of Chicago has authorized a \$1,000,000 bond issue for acquiring and developing small parks for the south side of Chicago.

W. S. Peterson, Chicago, has sold to the Bohemian National Cemetery Association sixty acres of land at \$1,000 per acre, for a cemetery.

Henry Augustine is to furnish trees and plants for a park to be established at Normal, Ill., by the Illinois Central Railroad Company.

The seventeenth annual meeting of the American Association of Cemetery Superintendents will be held at Rochester, N. Y., this year.

O. E. Pyther has purchased the Norwich Nurseries, Norwich, Conn., formerly owned by Stephen Crane. Mr. Crane died in July at an advanced age.

Col. E. F. Babcock, of the Columbia Nursery, Waitsburg, Wash., is contemplating removing to Prosser, Wash., where he will continue growing trees.

The dutible imports during October, 1902, of plants, trees, shrubs and vines, amounted to \$206,407, as compared with \$196,077 during October, 1901.

The firm of Thomas F. Galvin, Incorporated, has filed articles of incorporation to do a nursery business in Jersey City, N. J., with a capital of \$250,000.

Harlan P. Kelsey and Miss Florence Low were married on November 25th. Mr. Kelsey is the well known nurseryman of Boston and of Kawana, N. C.

The Idaho State Horticultural Society will hold its eighth annual meeting at Boise, Idaho, January 13, 14 and 15, 1903. Robert Milligan is the secretary.

Irving E. Spaulding, of the Spaulding Nursery and Orchard Co., Spaulding, Ill., on December 24th, married Miss Myrtle Sattley at Springfield, Ill.

Prof. John T. Stinson, of Mountain Grove, Mo., has been appointed superintendent of Pomology in the department of horticulture at the St. Louis Exposition.

The Oregon Nursery Company has nurseries at Salem, Oregon, and at North Yakima, Washington. Its offices are at Salem, Oregon, and at Missoula, Montana.

A. W. McMurray, proprietor of the Lakeside Nursery, Olympia, has disposed of his 2 and 3-year old trees of the Olympia apple, but has yet some yearlings to offer.

The school of practical horticulture of Briarcliff Manor, N. Y., was moved to Poughkeepsie, Jan. 1. A farm of more than 100 acres has been purchased near the city.

J. H. Dayton and Robert George of the Storrs & Harrison Co., Painesville, O., and James McHutchinson, of McHutchinson & Co., New York, were in Chicago last month.

Secretary John S. Kerr of the Texas Nurserymen's Association, says: "I believe that the increase in Texas orchards this season will be at least 200 per cent. over that of a year ago."

The Pacific Nursery Co., of Tangent, Oregon, report a very busy season, having filled more mail orders than usual. They still have a good supply of young trees for the spring trade.

The Carlisle Nursery Company has completed a range of five greenhouses. John Lindner is president of the company. H. E. Seitz, formerly with Storrs & Harrison Company, is manager.

Ellwanger & Barry, Rochester, N. Y., are introducing the Gans pear, of Ohio origin. It is declared to be a valuable addition to the list of early pears, in season between the Tyson and Bartlett.

The right to propagate the Monarch mulberry was recently sold to a Missouri nursery company. More than two thousand trees have been budded and many more will be propagated next spring.

L. H. Garretson and R. B. Moore of Ellersboro, Richie Co., W. V., have formed a partnership for the purpose of carrying on the nursery business at that place. The firm name will be Garretson & Moore.

Nursery stock to the value of \$500, awaiting delivery, was stolen from a vacant tract at Watonga, O. T., on Nov. 28. Stark Brothers, Louisiana, Mo., and the Star Nursery, Ottawa, Kan., were among the losers.

E. G. Mendenhall, Kinmundy, Ill., is secretary treasurer of the Horticultural Society of Southern Illinois. At the recent annual meeting he was elected for the thirteenth time. J. W. Stanton, Richview, Ill., is the president.

The park board of Memphis, Tenn., is to make make extensive improvements in the park lands of that city. Chairman Robert Galloway estimates that an expenditure of \$50,000 per year for ten years will be necessary.

It is reported that in the spring of 1902 the sales by the Elizabeth Nursery Company, Elizabeth, N. J., amounted to \$45,000, an increase of \$7,000 over the sales of the previous spring. E. Runyan is the manager, J. A. Dunlap is vice-president and A. S. Wooley, secretary.

The American Nurserymen's Protective Association has increased its executive committee from three to seven members. The new appointees are: D. S. Lake, Shenandoah, Ia.; A. L. Brooke, North Topeka, Kan.; H. B. Chase, Huntsville, Ala., and John S. Kerr, Sherman, Tex.

The United States Department of Agriculture, through its pomological division, is carrying on investigations of the underlying principles which govern the keeping of fruits in cold storage. The work is in the immediate charge of G. Harold Powell, the assistant pomologist of the department.

The New York State Fruit Growers' Association will hold its annual meeting at Buffalo, January 7-8. It is expected the attendance will be 1,200. There will be a large exhibition. The president of the association is Lucien T. Yeomans, of Walworth, and the secretary F. C. Dawley, of Fayetteville.

The Stark Brothers Nursery and Orchard Company, of Louisiana, Mo., has purchased the Orville T. Hartman nursery farm of 130 acres, located just outside of Dansville, N. Y. The F. E. Williams Nursery Company and the Kelley Bros. Nursery Company of Dansville, will be associated with the Stark Brothers Company.

The Andre Leroy Nurseries in Angers the oldest establishment of that kind in France, have recently been appointed "Roses and Fruit Growers at Angers, to His Majesty the King of England," as an acknowledgment of the superiority of the plants which they have delivered to the Royal Estates for a number of years.

A recent issue of the California Fruit Grower says: "Fumigators in Los Angeles county are using at present 918 tents every night, weather permitting, and a sufficient force of men to do excellent work. Never in the history of Los Angeles county have orange growers made such a clean sweep to free their citrus trees from scale insect pest. Over 30,000 orange trees which were sprayed last year are now fumigated."

JAN 20 1906

Recent Meetings of State Horticultural Societies.

OHIO.—The exhibit of pears and apples at the annual meeting of the state society at Clyde, Dec. 18, was unusually good. There was a general discussion of topics on the programme. New officers were elected: President, William Miller; vice-president, N. T. Cox; secretary, E. G. Woodard, of Kirtland; treasurer, R. J. Tussing. Secretary Farnsworth and Treasurer N. Ohmer retired after many years' service.

INDIANA.—The forty-seventh annual meeting of the Indiana Horticultural Society was held at Indianapolis, Dec. 3-4. Among the speakers was J. H. Hale who discussed modern methods in apple culture and marketing. He criticised the Keiffer pear and the Ben Davis apple. It was reported that 68 students last year studied horticulture at Purdue University. W. W. Stevens, Salem, was elected president; W. B. Flick, Lawrence, secretary.

COLORADO.—George I. Spear, Greeley, Colo., discussed plum culture at the annual meeting of the Colorado Horticultural Society. He advocated American varieties for cooking. E. F. Stephens discussed winter storage of apples. Reports of inspectors from various districts showed that in Arapahoe county 5,315 acres were bearing fruit this year, crop being valued at \$512,000. Fremont county reported 5,000 acres under fruit cultivation, 4,000 being apples.

ONTARIO.—At the annual meeting of the Ontario Fruit Growers Association, at Walkerton, Dec. 2-3, Joseph Tweddle, of Fruitland, reported that by means of spraying he cleared \$2,000 last fall from a 4½ acre orchard for which he paid \$65 rent, and that from a 25 acre orchard previously overrun with canker worms he secured returns amounting to \$3,000. He sprayed once before blossoms opened, once immediately after and then every three weeks until the fruit was well advanced. There are 500,000 acres in orchards in Ontario and 7,000,000 apple trees more than 15 years old. There are 11,000 acres in vineyards. The president of the association is W. H. Bunting, of St. Catharines.

MISSOURI.—The forty-fifth annual meeting of the Missouri Horticultural Society was held at Springfield, Dec. 2-4. There was a large attendance, twenty-nine honorary members being present from other states. Much attention was given to the apple, as the meeting was held in the heart of the Ozark country, and there was an unusually fine display of the king of fruits. All the officers of the society were re-elected. The horticultural exhibit at the Louisiana Exposition was the subject of an address by F. W. Taylor, who stated that the space for the horticultural display at the St. Louis fair would be double that at Chicago in 1893. Concerted action for the better conduct of the fruit shipping business was urged. Secretary Goodman promises a full report of the proceedings in official form in January.

IOWA.—President M. J. Wragg, nurseryman, presided at the annual meeting of the Iowa Horticultural Society, at Des Moines, Dec. 1-3. He recommended the adoption of a bulletin system for disseminating information to members of the society, and urged increased attention to horticultural education. The report of the treasurer, Elmer W. Reeves, of Waverly, showed a balance on hand of \$1,321.87. Silas Wilson and C. L. Watrous were active in committee work during the meeting. Mr. Wilson is treasurer of the Iowa Park and Forestry Association. Mr. Watrous is a member of the Horticultural Society Committee on Louisiana Exposition exhibit. President Wragg was re-elected president of the society; Wesley Greene, Davenport, secretary. Silas Wilson, Atlantic; W. O. Willard, Grinnell; Abner Branson, New Sharon, and M. J. Graham, Adel, are the nurserymen on the board of directors.

ILLINOIS.—The forty-seventh annual meeting of the Illinois Horticultural Society was held at Champaign, Dec. 17-19, President Henry M. Dunlap, of Savoy, in the chair. There was a large attendance, a fine display of fruit and an interesting discussion of horticultural topics. Officers of associations in Iowa, Indiana and Missouri were present and a banquet was planned in their honor. Among the papers discussed were those on "Native Plums," by Prof. E. Crane, Madison University; "Parks and Public Grounds," O. C. Simonds; "San Jose and Other Scale," Prof. S. A. Forbes. Mr. Dunlap declined reelection and H. A. Aldrich, of Neoga, was elected to the presidency. H. L. Doan was elected vice-president; L. R. Bryant, Princeton,

secretary, and J. W. Stanton, Richview, treasurer. The society decided to meet next year at Champaign. A strong bid for the annual meeting came from Bloomington.

QUEBEC.—At the tenth annual meeting of the Quebec Pomological Society, at Waterloo, Dec. 16-17, S. H. Fisher said that 25 per cent. of the cultivated land in Canada was in weeds. R. Brodie quoted figures under the topic, "Montreal as a Fruit Center." From June 15 to Oct. 1, there were brought into Montreal 150 cars of fruit on which freight and duty cost \$1,200 a car. In winter oranges came from California, Florida and Mexico, 160,000 boxes from the Mediterranean alone. In spring, apples arrived, 225,000 barrels being sold, and 200 car loads of small fruits came in from the United States and Ontario, not including that grown nearby. Up to Dec. 2, there left Montreal for foreign ports 476,753 barrels of apples; at present there are stored over 50,000 barrels. There were not vessels to take all the apples stored, and there still remain in Ontario 400,000 barrels.

Sidney Fisher was elected president; Dr. H. W. Wood of St. Johns, secretary.

MINNESOTA.—At the annual meeting of the state society, President W. W. Pendergast, in his address, stated that forty years ago it was thought impossible to raise apples in Minnesota. To-day forty varieties are successfully raised in the state, and this year's crop amounted to 500,000 bushels. The state society has grown from a membership of 41 in 1890 to 1,248 in 1902. Among those at the annual meeting was George H. Whiting, of Yankton, S. D. Among the prize winners were O. F. Brand, Faribault, and the Jewell Nursery Co., Lake City. Wyman Elliott, of Minneapolis, recommended for Eastern Central Minnesota, Wealthy, Duchess and Northwestern Greening. For Western Minnesota, Wealthy, Hibernia and Longfield were recommended for hardiness. Clarence Wedge, Albert Lea, was elected president of the society. J. M. Underwood was made a member of the executive committee. President C. M. Loring, of the State Forestry Commission, discussed "Roadside Trees." Mr. Underwood presided at the banquet of the Horticultural Society. Prof. N. E. Hansen, Brookings, S. D., responded to a toast. W. W. Pendergast, the retiring president, showed such a familiarity with the subject of plums that he was dubbed the "Plum Deacon" of the society. E. H. S. Dart, of course, talked of girdling fruit trees for productiveness.

MICHIGAN.—One of the most interesting papers read at the annual meeting of the Michigan Horticultural Society, at Hart, Dec. 2-4, was that by Prof. U. P. Hedrick on varieties of apples. This was illustrated with a collection of 72 kinds from Michigan, Massachusetts, Rhode Island, Nova Scotia and Washington. Prof. Hedrick said that the term variety is used too loosely and often fraudulently by the nurserymen and seedsmen, who send out old sorts under new names. A variety should be defined by its perceptible qualities rather than by its origination. Without new sorts all agriculture must come to a standstill. Variation is the result of environment, or of hybridization and selection. All the plants have a tendency to vary and none are exactly like the parents. Varieties differ in different localities in size, shape, color, texture and flavor. Thus we have well-marked strains of varieties grown under different geographical conditions. They are also plastic, and, by selection alone, marked results can be secured in the vigor of the tree, and color, size and quantity of fruit grown under the same conditions. Varieties do not run out on account of age, but because of being poorly adapted to the location, or especially subject to the attack of insects and disease. The report of the secretary showed that "little peach" is spreading and that peach yellows is decreasing. In general Michigan horticulture has improved during the year.

VIRGINIA.—The seventh annual meeting of the Virginia Horticultural Society was held at Lynchburg, Dec. 23. The fruit exhibit included plates of Smock, Solway and Bilyear peaches in perfect condition, which had been in commercial packages in cold storage. Three grades of Ben Davis, York Imperial and Pippin apples were shown in connection with lectures on packing fruit. The George E. Murrell Orchard and Nursery Company, Fontella, Bedford county, showed fine plates of Albermarle Pippins, Winesaps, York Imperials, Ben Davis, Rome Beauty, Roxbury Russet, Baldwin, Lawver and others. Vine

and Ewalt apples were also shown. Prof. Van Deman said the fruit exhibit was more creditable than was the Virginia exhibit at the World's Fair in Buffalo. Yet at the Buffalo exposition, Western growers said they could not grow such Winesaps as came from Virginia, and that only in Oregon and California could such Newtown Pippins be grown. William A. Taylor and H. P. Gould of the U. S. Division of Pomology discussed "Extension of Foreign Markets for Peaches and Pears," and "Why Some Orchards in Virginia Fail." Mr. Taylor, discussing the first topic said that the conditions of shipment on the fast steamers were against the best success of the experiment, as the California fruit growers had all the refrigerator space chartered for years ahead, and he was obliged to pay full package rates, this being much higher than regular car-load fruit rates. Yet, in some cases he was able to place American peaches on the London market at a profit. This was especially true where there was a glut in the New York markets. Prof. W. B. Alwood stated that he had seen the bushel boxes from Tasmania and New Zealand sell in London for nearly the same price as a barrel of American apples; notwithstanding the latter contained fruit enough to fill three boxes. All the officers were re-elected. Samuel B. Woods, Charlottesville, is president; Walter Whately, Crozet, secretary. A resolution was passed, commending the project of the federal government for an Appalachian Park.

MARYLAND.—The fifth annual meeting of the State Horticultural Society was held in Baltimore, December 18-19. Every county was represented. President R. S. Emery, Chestertown, in his address pointed out the importance of eternal vigilance in fighting the San Jose scale. He asserted that Maryland enjoys peculiar advantages for fruit and vegetable growing. The successful fruit grower of to-day must be intelligent and something of a scientist and entomologist. Fruit growing in this state has developed from a mere side line to an industry of great commercial importance. He showed the importance of orchard cultivation and explained the treatment required for different soils and advised the liberal use of fertilizers to secure paying results. J. W. Kerr, of Denton, spoke briefly on "Nomenclature and New Methods," and Richard Vincent, Jr., on "Ornamentals." Prof. G. Harold Powell, of the division of pomology, United States Department of Agriculture, spoke on "The Keeping of Fruits in Cold Storage." Prof. A. L. Quintance, of the Maryland Experimental Station, provided an exhibit that attracted general attention. In large glass cases were arranged specimens of the various entomological enemies of fruit trees and samples of pernicious fungous growths, together with leaves and branches of trees that had been attacked. "Profitable Apple Orcharding" was the topic of L. A. Goodman, of Missouri, who is the owner and manager of a 2,000 acre apple orchard. "There is no work or business that requires a greater amount of intelligence than does profitable orchard growing," he said. He has a superintendent for every 600 or 1,000 acres of the orchards. There are small houses and barns on the farm, 46 in all. Mr. Goodman's answers to questions brought out considerable practical information on apple growing. He illustrated how 2-year-old trees should be pruned, by pruning some of the trees on exhibition. There were exhibited 226 plates of apples, 40 of pears, 9 of peaches and 4 of crab apples. Officers elected: President, J. W. Kerr, Denton; vice-president, George O. Brown, Baltimore; secretary-treasurer, A. L. Quintance, College Park.

WESTERN WHOLESALERS.

The December meeting of the Western Nurserymen's Association was held on the 16th at Kansas City, Mo. The meeting was better attended than usual, and the universal report was that business was very good. The amount of hope and confidence for the future was very gratifying. Referring to the discussion of the subject: "Should Nurserymen have Stock Grown by Contract?" it appeared that a considerable amount of stock is grown in this way, and the results of this plan justify its continuance; it appearing that generally parties who do work in this line are familiar with this class of work and so can plant and cultivate with the best results. As the stock is sold before it is planted there is no time or ex-

pense attending the securing of a market for this product. So the grower can secure the largest profit and yet make low prices. This idea is further justified when it is remembered there is no part of the crop left on hand to go to loss. The nurseryman who secures his stock grown in this way is relieved of the necessity of giving time and attention to this part of the business. As he is relieved of this, he can now turn to his trade and secure a larger business than if he devoted a large portion of his time to the production of the stock his trade requires. It is believed that when favorable opportunity offers to contract for the growing of nursery stock, it is profitable to do so. Officers elected: President, A. L. Brooke, Topeka; vice-president, R. N. Blair, Ottawa, Kan.; secretary, and treasurer, E. T. Holman, Leavenworth, Kan.

BURBANK'S NEW PLUM.

TO THE NURSERYMEN OF AMERICA, GREETING:—

Gentlemen—We have been honored with a commission from the Hon. Luther Burbank, of Santa Rosa, California, and have accepted the work of propagating for, and introducing to, the horticultural public his grand, new plum, Maynard; and realizing that we have accepted a great responsibility, we turn first to our brother nurserymen, and appeal to them to assist us in the introduction and dissemination of this his latest and greatest effort. Mr. Burbank has done more to stimulate the sale of nursery novelties by his lifelong work of originating new varieties, than any living man, and he is still working away and no doubt will bring forth from nature's storehouse many more valuable varieties, that in turn will stimulate coming generations to plant and care for trees and flowers that will increase the nation's wealth and add pleasure and happiness to the homes of millions of people yet unborn.

The Maynard plum is sent out by Mr. Burbank with the assurance that it surpasses in quality and beauty of fruit any plum that he has heretofore introduced. We bespeak for the Maynard through the hearty co-operation and assistance of nurserymen everywhere, such a sale as Mr. Burbank's best efforts so richly merit and deserve. The many testimonials from leading horticulturists throughout the country testify to its good qualities and guarantee for the Maynard a great sale. And in presenting this new plum to nurserymen, we feel sure that it will not disappoint them, but prove the best agent's specialty that has ever been sent out. We offer the Maynard to nurserymen and dealers with every confidence that it will make them big money. A special catalogue on the Maynard will be ready for distribution about April 1.

For the next three months, we will offer stock at wholesale to nurserymen and sales will be made under a contract that will be mutually fair and just to all and protect each purchaser. All trees sent out will have attached the Maynard seal as a guaranty of their genuineness.

We have promised Mr. Burbank that the nurserymen of America will nobly respond to this call, and put forth their very best efforts in this great and good work. We are introducing the Maynard for Mr. Burbank under a contract that gives to him a royalty on each tree that is sold, and all must concede that he has well earned by his long years of toil in the origination of new fruits and flowers, all that will come to him in honor and money from the sale of this new plum. A short prospectus of the Maynard catalogue has been prepared and will be sent out on request, together with the terms and conditions governing the sale of trees.

Gentlemen, we have laid this proposition before you, and will be pleased to answer inquiries and give further information to those who decide to make use of the Maynard as an agent's specialty.

Awaiting your further commands, we are,

Yours very truly,

Salem, Oregon.

OREGON NURSERY COMPANY,

OSCEOLA, Wis., Dec. 10, 1902.—J. C. Rocse, manager Cascade Nursery: "Enclosed find \$1.00 for renewal of your valuable journal. It is certainly a tonic to the nurserymen."

The National Nurseryman.

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Payment in advance required for foreign advertisements. Drafts on New York or postal orders, instead of checks, are requested.

Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, Charles A. Ilgenfritz, Monroe, Mich.; vice-president, D. S. Lake, Shenandoah, Ia.; secretary, George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

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Committee on Publicity—C. M. Stark, Louisiana, Mo.; Ralph T. Olcott, Rochester, N. Y.; F. H. Stannard, Ottawa, Kan.

Annual convention for 1903—At Detroit, Mich., June 10-12.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., JANUARY, 1903.

DEVOTED TO FRUIT CULTURE.

About fifty years ago a few men interested in fruit culture met in Rochester, N. Y., in response to a call which declared that the culture of fruits in this region was becoming an important branch of industry. Apple growing and all fruit raising was then in its infancy. Out of the meeting of earnest, enthusiastic men who responded to that call sprang the Western New York Horticultural Society, which, for nearly half a century has devoted its energies and its money to the art of fruit culture. The discussions of practical questions, in which every one is free to participate, is a popular feature of the an-

nual gatherings, and it is no uncommon thing to hear well-to-do fruit growers attribute their success largely to their membership in the society.

The forty-eighth anniversary of the Western New York Horticultural Society will be observed January 28 and 29, 1903, at Rochester. Among the speakers will be Professor I. P. Roberts, of Cornell University; Dr. H. J. Webber and Professor Harold Powell, of the Department of Agriculture, Washington, D. C.; Dr. W. H. Jordan, director of the New York Expt. Station; the "bug man," Professor M. V. Slingerland, always entertaining and instructive; Prof. S. A. Beach, Dr. L. L. VanSlyke, Professor F. C. Stewart. Alexander McNeil, prominent in the service of the Canadian government, will give a talk on "Grading and Packing," an object lesson.

We present in another column abstracts of the proceedings of the state horticultural societies that have met since our last issue. It will be seen that nurserymen continue to direct the affairs of these societies in large measure.

FINE TEXAS FRUIT.

Much has been heard of the fine fruit of California, but not so much has been reported of horticulture in Texas. From fine specimens received last month from E. W. Kirkpatrick, McKinney, Tex., we are able to assert that nothing that has come over the range from the Pacific coast excels the apples, nuts and persimmons that are grown in the Lone Star state. One of the apples, a Ben Davis, was twelve inches in circumference; the other, an Arkansas Black, was eleven inches. These apples were grown in Erath county, in the semi-arid district, and without irrigation. The samples certainly were as fine as any we have seen, and far above the average even of those that come to the East from the land of these apples. In flavor they were excellent, and in appearance most attractive. "Millions of bushels of these apples," says Mr. Kirkpatrick, "could be raised here on cheap lands, to be had from \$10 to \$20 per acre."

RECENT LICENSE AGITATION.

A survey of the proceedings of the horticultural societies of the states, during the recent annual meetings, shows that efforts to regulate nursery matters are still cropping out in various quarters. The Minneapolis Tribune publishes the following in its report of the annual meeting of the Minnesota Horticultural Society, Dec. 3-5:

A resolution was introduced favoring the passage of a law providing for the inspection of orchards and nursery stock so that there would be no possibility of spreading diseased and worthless trees and other plants.

Such a law is in operation in Iowa, and the freight offices and express companies are not allowed to carry fruit trees that have not been properly inspected by the state authorities. The matter aroused some suspicion at once and numerous explanations became necessary before the matter was finally dropped.

It was thought that the purpose of taking such a course had been instigated by the nurseries for their benefit. An action similar to this had been taken once before by the association, and the matter was killed in the legislature because it was credited to certain nurseries. Another effort along that line was thought to be futile.

At the annual meeting of the Virginia Horticultural Society Vice-President W. W. Otey and Mr. Woods declared that State Entomologist W. B. Alwood had failed to do his duty in that he had not enforced treatment of private premises for

San Jose scale. Professor Alwood replied that unless funds were provided by the state or by the counties, no adequate efforts could be made. Professor Alwood stated that the scale insect had steadily spread in the orchards and gardens of the state, and that there has never been sufficient money available to pay the expense of following the work and enforcing treatment of cases on private premises. Thus, while the nursery inspection had been quite fully enforced and the restrictions placed on shipping infested stock into the state carried into effect, the spread of the trouble from infection already established was progressing in a sure and dangerous manner.

The fact came out in the discussion that the state entomologist had never been paid any salary for the duties performed in relation to this work, and that the crop pest commission had even been obliged to borrow \$1,500 to carry on the necessary public work the past year, as through a technicality part of the regular appropriation had been withheld.

A resolution was passed recommending a graduated license tax on nurseries to pay for nursery inspection.

THE BEN DAVIS SITUATION.

We published recently the statement by P. M. Kiely, St. Louis, regarding the Ben Davis apple. That statement has been widely known, and an editorial elsewhere has been some opposing replies. Mr. Kiely says in Colman's Rural World of Dec. 10th:

"The publication in your journal a few weeks ago of my letter on the Ben Davis apple has brought to the front a number of defenders of old Ben. Strangely enough the parties coming to the rescue of this declining apple are those having large Ben Davis orchards—many of them planted years ago when this variety had more claims to recognition than it has now, or ever will have again. It is natural for a man to set a high valuation on his property and of course such people frown at any statement that reflects on their judgment or orchards. An apple dealer in Kansas City who is loaded to the guards with Ben Davis makes a hard fight for it in a communication to several trade journals patronized by dealers. The gentleman declares he has letters from many states calling for Ben Davis but he neglected to add that it was useless for them to ask for any other variety and that they were looking for the low figures likely to arise where the Ben Davis were so plenty and all other varieties so exceedingly scarce.

"At the late meeting in this city of the National Apple Growers' Association I met a large number of men whose orchards unfortunately were composed largely of Ben Davis. Most of them admitted to me that if they were planting again they would raise more varieties that would be acceptable in every market and worthy of the patronage of all—something that would command good prices regardless of how low Ben Davis figures were. Other growers thought I wanted them to root out all their Ben Davis orchards—an idea I never entertained. A number of these gentlemen submitted what they regarded a knock out argument in "What will you give us instead—what will take its place?" Now there is no necessity for seeking or presenting any one variety but as I stated in my former article several and not one variety should take its place. W. T. Flourney of Marionville, Mo., one of the most successful fruit growers in the state and who owned too many Ben Davis trees to condemn them acknowledged

that the article would do much good as it would set the people to thinking and would doubtless change many existing ideas and was especially valuable to those contemplating setting out new orchards. In fact nearly all submitted there was enough already planted and it was time to call a halt on the Ben Davis, because if another tree was not planted in the next twenty years, the Western markets will remain deluged with it during all that time because hundreds—I might say thousands of orchards are composed mainly of young Ben Davis trees."

BUILDING PACKING HOUSES.

Foster & Griffith, Fredonia, N. Y., have constructed a cellar 32 x 52 feet.

Albertson & Hobbs, Bridgeport, Ind., found that their packing and storage house added greatly to their facilities during the fall season.

George A. Sweet, Dansville, N. Y., is building a storage plant on his grounds. It will be constructed after the most approved plans.

W. C. Reed, Vincennes, Ind., has bought the Monical Farm two miles east of the city; price, \$10,400. This adjoins eighty acres upon which he has been growing stock for the last three years, and is two miles nearer town than his home place. He expects to build a large storage cellar and packing house on the new farm in the spring and will move his office and packing grounds there for the coming season. Being located on the main line of the B. & O. S. W. R. R., and on good gravel road and within one and a half miles of the street car terminus, he will be in much better shape to handle his fast growing business.

Reports from Penn Yan and Hammondsport, N. Y., state that the grape crop of the past season is much smaller than usual, shipments up to December being but one-half of the number last year at that time. Lack of sunshine made the sugar test low, and dry rot was excessive.

It is reported that the Boston & Maine Railroad Company is replacing flower beds at its stations with shrubbery, on the ground that the shrubs require less care, are more permanent, and give a longer, pleasing effect. This change would throw the business of supplying the nursery stock more directly into the hands of the nurseryman. And the plan might be extended to other railroads.

Professor L. H. Bailey is wanted at the head of the New York College of Agriculture, when Prof. I. P. Roberts retires. We are for Professor Bailey for any position that requires an able organizer, a thorough student, and a clear-headed thinker and man of action. We have long appreciated his work for horticulture, and we would not like to vote for a limitation of his valuable services to agriculture. He is not seeking the position above named; it is clearly a case of the office seeking the man, and whether he will feel that he can devote the time necessary for that position remains to be seen.

The Texas Nursery Company, at McKinney, Tex., established by E. W. Kirkpatrick in 1874, consists of 100 acres, employs 20 agents and ships 8,000 packages each season. E. W. Kirkpatrick is president; Robert Cruse, vice-president; C. C. Mayhew, secretary and treasurer. The capital stock of the company is \$40,000. The officers with A. B. Mayhew and W. P. Head are the directors.

In Nursery Rows.

PEACH PITS.—Edwin Hoyt, New Canaan, Conn., says in Rural New Yorker: "Peach pits should be buried on the south side of a fence or building, with the earth well mixed in with the pits. Put them from four to six inches below the surface of the ground. In April dig them out, when the larger proportion of the pits will crack open, and the meat of the pit will drop out of the shell. Keep the pits from drying and plant, covering about one to one and one-half inches deep. In this way almost every pit will come up unless worms eat the sprout off before it gets through the ground." H. S. Wiley, Cayuga, N. Y., says: "We usually get in our peach seed toward the end of November and cover three to four inches deep, placing the pits two to three inches apart. This is what we call "bedding out" the seed. In the spring we usually find a fair percentage of the seed cracked and sprouting; what does not crack we crack with hammer, using care not to bruise the kernel. The seeds are then planted in rows where they are to grow, and are budded in August following the planting. The young trees should be given good cultivation and kept free from weeds."

THE MOTHER APPLE.—The mother apple is one of the good old sorts which has been pretty nearly crowded off the list in the modern commercial development of the apple business, says F. H. Waugh, the Rural New Yorker. It does not have the qualities of the commercial apple. It is everything which the Ben Davis is not. The tree is a somewhat weakly grower, especially in the nursery. It is hard to make nice nursery trees of this variety. The best way to grow it is to top-graft it on some suitable stock like Spy or Tolman. We are beginning to realize that we have made a great mistake by discarding a number of fine varieties on account of their unsatisfactory growth in the nursery. We have allowed the nurseryman to dictate our varieties to us, but we are gradually growing out of that now. Another defect of the Mother apple is that it is a shy bearer, and that the fruit falls rather early from the tree before it is ripe. The apple is only fair-sized and though red is not so gaudy as the Ben Davis or the Baldwin. When it comes to flavor and aroma, however, I believe there is nothing else in the whole list of apples which can equal it.

GINKGO TREE.—"The Ginkgo is a new and very promising tree from Japan," says W. A. Merrill, in a Cornell University, N. Y., Bulletin. "There is a fine avenue of them in Washington and they seem to stand the winter as far north as Boston, where several young trees have recently been planted. At Rochester, the extremities of the lower limbs are often winter-killed, and in Northern Germany it cannot be successfully cultivated on account of severe cold and injury to its branches from snow. This tree is in many ways an ideal street-tree, and is without enemies of any kind. One must wait many years for shade, however, and the form of the tree must be adapted to street use by careful pruning. The indications are that that the Ginkgo will make a valuable addition to our list of shade trees; but experiment alone will definitely determine its value. A new tree often has many advantages in the way of soil and attention which would work wonders if bestowed to an equal degree on some ordinary and less esteemed species; while it might be difficult to say just what effect the vigorous conditions under which many of our city trees exist would have upon the species newly introduced. It is to be hoped that the Ginkgo will not have to suffer all that some other trees have borne."

MICHIGAN NURSERIES.

Nursery stock valued at \$338,544 was reported by 159 farmers and nurserymen in Michigan in 1899. The 54 commercial nurserymen reported \$319,804 derived from the sale of nursery products, and \$19,744 from the sale of other products. The area of land used was 6,029 acres and the gross income per acre, \$56.32. The total investment was \$528,530; \$378,355 in land, \$100,800 in buildings, \$28,795 in implements, and \$20,580 in live stock. Fertilizers cost \$7,637, and farm labor, \$71,435, or 21.0 per cent of the value of the gross product.

THE VENEERED SEEDLING.

We have quoted the remarks of G. A. Gamble on the "veneered seedling." Mr. Gamble has no respect for the "fence corner peach" which he characterizes as the downfall of the farmer and the foe of every nurseryman. Mr. Gamble says:

A man was asked if he wished to buy some fine peach trees. He looked very wise and said: "No—I never buy peach trees, I plant the seed and grow my own trees." The poor fellow didn't have any more sense than to think he was smart. It would be almost a sin to disturb such a man in his blissful ignorance. If a reformation is accomplished, it must be through future generations. These can hardly be called exceptional cases. They represent such a large per cent. of the farmers of Arkansas it is certainly the rule and not the exception.

Where the veneered seedling has been discarded, the fruit raisers are making money; where it has not, the people are oblivious to what is going on in the world.

If we fail in our efforts at education, we can only continue to abuse the veneered seedling, and cry: Hurrah for the famous Elberta! the prize winner, the money maker, the mortgage lifter, and the peach which has gained a national reputation by bringing to the fruit raisers of the United States over two billion dollars.

THE FEDERAL BILL.

Chairman W. L. WATROUS, able to assert that legislation of the American Association of Nurserymen, has sent out the following under date of Dec. 31, 1902:

DEAR SIR:—In obedience to the unanimous vote of the association at Milwaukee last June, the committee on legislation is doing its utmost to secure the success of our inspection bill (H. R. 10,999). The committee will go to Washington next week to urge action, and needs your aid. Nothing else will help so much as a good strong personal letter to your congressman and one to your senator. Will you attend to this writing at once and make your appeal as earnest as you can? We ask uniform rules to govern interstate shipments. At present most states have laws, but there is no uniformity. Some are very drastic and difficult to comply with; others are imperfect; and some states have no laws at all. The administration of these laws lacks uniformity as much as the laws themselves do, causing complaint and friction. The great fruit growing interests of the country suffer loss, and business is hampered by uncertainty. We need uniform rules of law and uniform rules of administration. These will be secured by the passage of our bill. Please do not fail to mention the number (No. 10,999), and that we hope to have it without amendments.

C. L. WATROUS, Chairman of Committee.

Edward Brown Spence, of Darlington, England, died recently at the age of 77. He came to America and served in the American army in the Mexican war. Returning to England he became a nurseryman.

Frederick W. Kelsey, of New York City, president of the New England Society of Orange, presided at a dinner given at Orange, N. J., on Forefathers' Day, December 21st. Ex-Attorney General Griggs was the principal speaker. Among those present were Governor Franklin Murphy, Thomas A. Edison and Congressmen Fowler. There were 250 members and guests present.

PIERCE BECHTLE, LEMARS, IA., Jan. 10, 1902.—"Enclosed find postoffice order for \$1, which please place to my credit on subscription for the NATIONAL NURSERYMAN. I am well pleased with the publication. It covers the field quite thoroughly."

J. W. KERR, DENTON, MD., Dec. 27, 1902.—"Enclosed please find one dollar subscription to NATIONAL NURSERYMAN. Let your light continue to shine—in moderation; a "blaze" should be carefully guarded against, though. That you may have an overflow of felicitous prosperity, that will not only cover this holiday season, but extend far, far into the future, is the best wish of J. W. Kerr."

Recent Publications.

"The Hardy Catalpa in Commercial Plantations" is the subject of a bulletin issued by the United States Department of Agriculture.

The Alabama Nursery Co., Huntsville, Ala., extends the compliments of the holiday season in connection with a neat publication from the Mount Pleasant press at Harrisburg Pa., regarding the much-involved sale of a mule and the shrewdness of a darkey named "Lige".

Ginseng. Its cultivation, harvesting, marketing and market value, with a short account of its history and botany. Revised, greatly enlarged and brought down to date. Illustrated, 144 pages, 5x7 inches. Cloth. Postpaid, 50 cents. New York: ORANGE JUDD COMPANY.

"Where Good Trees Are Grown" is the subject of an attractive illustrated booklet of fifteen pages published by Thomas Meehan & Sons, Inc., Germantown, Pa. It gives general information about this large nursery with some account of the manner in which the work is systematized in departments. Systematized work among nurserymen is coming to be the rule. Where it is not yet done to much extent great profit would result from an examination of the methods adopted by such a successful firm as Thomas Meehan & Sons.

The first World's Work of the New Year contains a wide variety of subjects written about in the concise, optimistic manner which is characteristic of this magazine. Perhaps the most important article is Mr. Robert H. Montgomery's story of the American invasion of Canada, illustrated with many striking pictures and portraits. There is an important series of statistics about American manufactures, a sketch of the late Herr Krupp, and an editorial article on Individual Responsibility for Panics, besides the usual March of Events Among the World's Workers, and some letters from well-known authors.

Among the articles in Country Life in America for January is one relating to the apple by Prof. Bailey: "The latest estimate places the total number of apple trees of bearing age in the United States at something over two hundred millions. This is nearly three trees to every person. These trees yield more than one hundred and seventy-five million bushels. Not all the apples are consumed at home, for in years of full crop more than three million bushels go abroad. Yet, the apples kept at home are more than two bushels for every adult and child. We are a nation of apple-eaters. This fact may not be to our credit, however, when we remember that a good part of all these apples are Ben Davis and other kinds that a refined and cultivated taste would not choose for its desert. Yet probably half our people never raise an apple; and of the half who do raise them, but a small percentage grows for market; and of those who grow for market, only a part made a profit from the business. Yet there is money in apple growing."

"Nature and the Camera" is the title of one of the most entertaining of the many recent books on the subject of nature study. The author, A. R. Dugmore, has here given in its most practical form detailed information regarding the photographing of animal, vegetable and insect life. His range covers live birds and their nests; animals, wild and tame; reptiles; insects; fish and other aquatic forms; flowers, trees and fungi. The illustrations are from photographs by the author. The first chapter is devoted to the apparatus and conveniences for the taking of pictures of such objects as above enumerated, necessarily requiring special arrangements. The succeeding six chapters teem with interest for the lover of nature; they present the subject in the most fascinating form. "Few of the vast army of photographers", says Mr. Dugmore, "realize what it is to hunt wild animals with their cameras; still fewer of the sportsmen appreciate the amount of sport which may be had when the camera takes the place of the rifle. They don't consider that for the camera there is no close season. If we consider the skill required for camera hunting, we must realize that more is needed than when the gun is used; for it is necessary not only to approach nearer to the animal, but, even when near, hours may be spent in trying to secure either a favorable place or a suitable attitude, and during all this time every precaution known to the hunter is called into practice. Stalk a deer with a camera and you will realize how small a thing will mar the chances of success. A twig incautiously broken, the grazing of the camera against a dry branch,

or any of the hundred and one accidents that may at times happen to the still hunter, and where is your photograph? Gone! Whereas had you been using the rifle you might easily have bagged the game." The author observes that insect photography is in its infancy, and that until quite recently fish photography was almost untrodden ground. Fish are photographed through the glass side of a specially constructed aquarium; the results are very realistic. The last chapter of the book, that on photographing trees, shrubs and flowers, is of special interest to our readers. Seldom, except in the early morning or late evening, does one find a day so quiet that the flowers stand motionless. The photographing of cut flowers, leaves, fruits and fungi is also discussed. Pp. 126. Cloth, \$1.35. New York: DOUBLEDAY, PAGE & Co. Rochester, N. Y.: SCRANTON, WETMORE & Co.

A PLEA FOR THE LARGE NURSERY.

A writer in Indiana says in the Rural New Yorker:

A great deal has been said about fruit tree agents. I wish to state here that more farmers have been swindled by dealing with little one-horse nurseries than by agents representing nurseries of character. The cry has been so long "patronize your home nursery," till the rogues have leased a patch of land and gone to raising a few trees, often not a tenth of what they sell. They send their agents out all over their county and adjoining county with the plea that this is a home nursery. They make all kinds of claims. A few years finds them changed in location, with another piece of land leased, and telling the people to patronize their home nursery, raising a few trees for a blind and buying trees of inferior quality for their customers. I think it safe in buying trees, unless you have known your home nurseryman, to patronize some large firm; one that has a reputation at stake. Our large nurseries cannot afford to do anything but an honest business. This section of country here has some little one-horse affairs—tree jobbers who change locations; at least they do not stop long at one place.

WILL SPEND TWO MONTHS IN CALIFORNIA.

Charles H. Perkins and George C. Perkins, of Newark, N. Y., will start early in January for California, to be absent until about the last of February. A portion of the time will be spent at Orange, Cal., where Jackson & Perkins Company have extensive branch nurseries. The Orange place comprises about sixty acres, and is devoted partly to orange and walnut orchards and partly to rose growing. Three car loads of rose bushes have been shipped from there to Newark this season. Two large propagating houses have been built the past summer, and the output of rose bushes will be greatly increased by another year. Charles H. Perkins will visit the leading business centers of the state of California in the interest of his extensive commission business in California products.

SHORT COURSE IN HORTICULTURE.

The Missouri Agricultural College, Columbia, Mo., was the first institution in America to establish a special school of horticulture. This school has attracted wide attention. The course consists of more than 200 lectures on the following subjects: Nursery Work, Orchards and Small Fruits, Market Gardening and Hot-bed Forcing, Floriculture, Landscape Gardening, Forestry, Fungous Diseases, etc.

The Painesville Nurseries, Painesville, Ohio, stand at the head in acres of land and greenhouses; in storage cellars and packing houses; in amount of stock handled and in variety of stock grown.

Long and Short.

C. F. McNair, Dansville, N. Y., has apple trees for sale.

A. L. Brooke, North Topeka, Kan., will make apple grafts.

One man can operate the Deming field sprayer, made at Salem, O.

Kellar Bros., Norristown, Pa., offer standard pots equal to the best.

W. C. Reed, Vincennes, Ind., requests a list of wants. He has ear load lots.

W. & T. Smith Co., Geneva, N. Y., are headquarters for all kinds of nursery stock.

G. A. Gamble, Oklahoma City, Okla., offers 400,000 strawberry plants at low prices.

The Oregon Nursery Co., Salem, Ore., has an attractive announcement in another column.

Grape vines, currants and gooseberries are specialties with George S. Josselyn, Fredonia, N. Y.

Transplanted Gregg, Munger and other raspberries are wanted by E. F. Edmondson, Perry, Iowa.

The apple tree is made a specialty at the nurseries of Blevins Brothers, Bentonville, Arkansas.

Jackson & Perkins, Newark, New York, carry a general line of nursery stock. Roses a specialty.

Raffia may be obtained in the best grades from McHutchison & Co., 218 Fulton street, New York city.

Grape vines and currant plants of the highest standard are grown by Wheelock & Clark, Fredonia, N. Y.

Nurserymen's knives, hand forged, razor steel, warranted, can be had of Maher & Grosh Co., Toledo, Ohio.

Peters & Skinner, North Topeka, Kan., have apple, cherry, peach, plum, apricot, Kieffer pear; also shade trees.

Correspondence is solicited by I. E. Ilgenfritz' Sons, Monroe, Mich., in the matter of fruit and ornamental stock of all kinds.

Asparagus, cherries and ornamental stock, grown at Geneva, N. Y., can be had of the Whiting Nursery Co., Boston, Mass.

WANTED Transplanted Gregg, Munger and other **RASPBERRIES**
E. F. EDMONDSON, PERRY, IOWA.

ASPARAGUS, 150,000 Fine Two year Five Varieties

Crab Apples, general assortment, two year.

Sweet Cherries, 2 year.

3000 Clematis Paniculata, heavy, two year, cheap.

5000 California Privet Hedge.

Norway and Colorado Blue Spruce and American

Arbor Vitæ, various sizes, extra quality.

Flowering Shrubs, best grade, general assortment, cheap.

Stock grown at Geneva, N. Y.

WHITING NURSERY CO.

Boston, Mass.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order, or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

Harrison's, Berlin, Md., have apple, Kieffer pear, asparagus and probably the largest line of peach trees in the country.

A fine stock of apple in good assortment is offered by E. S. Welch, Shenandoah, Ia.; also a complete line of general nursery stock.

The Franklin Davis Nursery Co., Baltimore, Md., offer a full line of strictly first-class stock, small fruits, extra heavy shade trees.

Albertson & Hobbs, Bridgeport, Ind., have apple, pear, plum and cherry and ornamental stock, nursery spades, baled excelsior, etc.

H. M. Simpson & Sons, Vincennes, Ind., offer for spring of 1903, apple, cherry, peach, Kansas raspberry tips and Snyder blackberries.

Strictly high grade fruit and ornamental stock of all kinds can be obtained of the well-known New Haven Nurseries, New Haven, Mo.

Forest tree seedlings, Osage orange plants and apple grafts are among the specialties offered by the Shenandoah Nurseries, Shenandoah, Ia.

Ornamental trees, sugar maples, pin oaks and Wier's maples are offered by Ellwanger & Barry, Rochester, N. Y., in all sizes; handsome, straight trees.

Apple, peach and shade trees; also American and Japanese plums, forest seedlings and hedge plants are offered by Youngers & Co., Geneva, Neb.

Large fruit trees are wanted by Thomas Meehan & Sons, Inc., Germantown, Philadelphia, Pa. Send list of varieties, giving height, caliper and price.

Brown Brothers Company, Rochester, N. Y., have a full line of nursery stock for the coming season. They would be pleased to receive list for estimate.

"Strong on apple, cherry, pear, plum, peach, apricots, apple, pear and forest seedlings and apple scions" is the announcement of F. H. Stannard & Co., Ottawa, Kan.

RAFFIA Best grades of Madagascar Raffia for Nurserymen.

Orders for bale (225 lbs.), or more from stock or for direct import. Write for prices.

McHUTCHISON & CO, 218 Fulton St., NEW YORK

WANTED AN EXPERIENCED FOREMAN, that can take charge of the office and handle agents to good advantage. Will let the right man have an interest in the business on very liberal terms. One of the best locations in the West. None but hustlers need apply. Write for full particulars to X. Y. Z., care National Nurseryman.

WANTED=LARGE FRUIT TREES

Good, well branched stock, free from scale, straight stems, branched from 3 to 5 feet.

Standard varieties with good roots. Send list of varieties giving height, caliper and price.

-THOMAS MEEHAN & SONS, Inc.

Germantown

Philadelphia, Pa.

BLEVINS BROS. WHOLE ROOT NURSERY

The largest nurseries in Northwest Arkansas. We make the **APPLE TREE** a specialty. Our stock is guaranteed true to name. Write to us for prices.

Main Office

BENTONVILLE, ARKANSAS

COAL TO BURN

is the exception and not the rule in many localities this season, but the filling of your LABEL orders will not be affected if you favor us with them before the rush begins

BENJAMIN CHASE, DERRY, N. H.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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To give satisfaction in every detail should be the nurseryman's unremitting endeavor.

Vol. XI.

ROCHESTER, N. Y., FEBRUARY, 1903.

No. 2.

HEAVY DEMAND FOR STOCK.

Call for Commercial Varieties of Peach in the South Has Been Unprecedented—One Firm in Few Months has Turned Down Orders for Over Five Million Peach—Planting of Orchards may be Overdone—Many Ornamental Trees called for—Prices.

L. A. Berckmans, of the P. J. Berckmans Co., Augusta, Ga., writes :

"The demand for nursery stock is immense this year ; the call for commercial varieties of peaches has been unprecedented and we have in the past few months turned down orders for over five million peach trees. The Elberta craze is spreading and we fear that the planting of commercial orchards in the South will be overdone, as many prospective planters are not posted as to soil and climatic requirements ; they are also ignorant as to the care and cultivation of a commercial orchard.

The demand for ornamental trees, plants, shrubs, etc., is largely on the increase in the South ; this is a most encouraging omen. The price for many lines of nursery stock is not consistent with the cost of production ; this is especially applicable to many varieties of soft-wooded plants, and many growers are abandoning the growing of bedding stuff."

WESTERN WHOLESALERS.

The Western Association of Wholesale Nurserymen met at Centropolis Hotel, Kansas City, Mo., Dec. 19, 1902.

Morning session called to order by Vice-President R. H. Blair. Reports of secretary and treasurer read and approved. Treasurer's report showed a balance of \$105.77. A. Willis introduced the subject of insurance on stock in storage and storage buildings. A general discussion ensued showing considerable inequality of rates in the different states. The views were that the risks were less than on ordinary merchandise and that higher rates were excessive. J. H. Skinner and A. L. Brooke were requested to see the adjuster in the interest of reduced and uniform rates.

The afternoon session was called to order by President A. L. Brooke. Roll call showed twenty-three present, including the honored guest, Col. Pearsall.

Alabama Nursery wrote, and Stark Bros. wired, regretting their absence and wishing a good meeting.

Absent were Bates Bros., Wm. Cutter & Son, A. H. Griesa, W. F. Heikes, J. W. Schuette & Co., Sherman Nursery Co., J. Wragg & Sons, F. W. Watson & Co.

Herbert Chase, by letter, gave as his opinion that the supply of cherry for next year would likely be less than this year. In the South a large per cent. is growing ; but a larger per cent.

is sold than last year and from existing conditions think prices will remain firm or advance.

With peaches he thinks prices will rule about as they have for the past two or three years. There has been a large planting of peach pits for next season's budding, but the probability is that a large per cent. will be used for June budded trees for delivery next fall or winter ; but June trees are sold almost wholly in the South and should not be taken into account when considering the general supply.

A. Willis introduced the subject, "Economy in contracting over growing your own stock," and while debated from many standpoints, Mr. Willis' argument that it relieved responsibility seemed sustained.

Peter Youngers took J. W. Schuette's place on the programme and spoke on "What should the Western nurserymen do at the St. Louis fair?" At the conclusion of the matter, it was undetermined and will probably be further considered at the next meeting in July. J. H. Skinner and A. C. Griesa talked on healthful trees and best means to combat disease or pests. The formal discussion on these subjects was short. There is no member of this association but shows a clean bill of health for stock and grounds by authorized inspection.

R. H. Blair presented application of Geo. W. Sallee, and E. P. Bernardin presented application of T. E. Griesa for membership. The committee on examination reported favorably, followed by a unanimous ballot for admission.

Upon motion the secretary called the roll, the members responding giving amount of stock on hand and outlooks for future demands. These responses showed a general shortage and a probable demand more than could be met in all lines.

An amendment changing the summer meeting to second Wednesday in July was passed.

Election of officers resulted in choosing for the ensuing year :

President—A. L. Brooke.

Vice-President—R. H. Blair.

Secretary and Treasurer—E. J. Holman.

Executive Committee—Peter Youngers, Jr., Chairman, A. Willis, J. H. Skinner, H. B. Chase, E. S. Welch.

Committee on Transportation and Tariff—F. H. Stannard, A. J. Brown, J. W. Schuette.

Programme Committee—E. P. Bernardin, E. Stark, E. J. Holman.

After a pleasant and profitable meeting the association adjourned to meet at same place again July 8, 1903.

E. J. HOLMAN, Secretary.

Hoopes Brother & Thomas have erected another packing shed.

The Harrison Nursery Co., York, Neb., has completed a brick storage and packing house 106 x 25 feet, adjoining the B. & M. tracks. W. A. and H. S. Harrison are the proprietors.

NEW YORK FRUIT GROWERS.

Youngest of the Large Horticultural Societies in Two Years Leads in Paid Membership—Practical Work of a Great Organization—Important Matters Cited for Consideration—President Yeomans Succeeded by T. B. Wilson—Other Officers.

The second annual meeting of the New York Fruit Growers Association, held in Buffalo, January 7-8, was a rousing one. This is the youngest of the large horticultural societies, yet in two years' time it has outstripped the others in point of paid membership. The attendance at the first day's session was 500; the paid membership numbers 880.

President's Address.

In his address President Yeomans urged the members to avail themselves of the opportunity of co-operation. He said: "The single feature of purchasing fertilizers and chemicals for spraying, etc., through our association, of itself alone will effect a saving of money to fruit growers sufficient to pay all the running expenses of the association, and leave a handsome margin. Among other important matters for our consideration are the following: 1, The perfecting of our excellent system of crop reports; 2, the adoption of a more uniform standard as a basis of comparisons; 3, legislation for just and rightful protection of growers; 4, the shipment of tender fruits to Europe; 5, the adoption of our association's standard of quality and size in packing our fruits; 6, improved facilities for transportation, fair classifications and rates of freight; 7, the storing and handling of fruit at home and abroad; 8, better methods in handling and reporting on consignments; 9, exposure of dishonest dealers; 10, more careful and thorough attention to injurious diseases and insects; 11, changes in membership fees to enable the association to be self-supporting; 12, the reorganization, building and equipment of our agricultural college at Cornell university upon a basis commensurate with the rapidly increasing importance of the fruit growing interests of the state and under the direction of America's most distinguished horticulturist, Prof. L. H. Bailey.

Choice Fruit Pays Best.

In conclusion, President Yeomans said: "Remember it is always the choice fruit, honestly and attractively packed, that pays best, and not that which is so poor that it barely passes the inspection of the buyer. Not only must it be attractive to the eye, but of superior quality to please the palate. Such fruit is always in demand at good prices, and always will be. May it be our ambition as members of the largest fruit growers' association in America, and residents of the greatest apple producing state, to sustain and exalt the reputation won by New York apples."

Membership Fee \$3.

Secretary Dawley's report showed that the association had paid out to each member \$1.68 for every \$1 paid in. The expenditures were \$1,879.22, the receipts \$1,488.25. The annual membership fee was changed to \$3, life membership \$25. The payment of \$3 entitles members to all privileges, including crop reports and annual report. Associate members who pay \$1 do not get the crop reports. In all, 880 members have paid, which added to the 231 from the Eastern New York

society, makes a total of 1111. Of the entire membership from the beginning only 88 have failed to renew.

Prof. Bailey Indorsed.

The following introduced by Grant G. Hitchings, was unanimously indorsed:

That the New York Fruit Growers' Association wish to record their appreciation of the effective service rendered to agriculture and horticulture during the past quarter of a century by Prof. I. P. Roberts, dean of the College of Agriculture at Cornell University, now on the eve of his retirement from this responsible position, and further, that the association heartily indorse the suggestions contained in President Yeomans' address, that Prof. L. H. Bailey be elevated to the deanship now laid down by our friend and co-worker.

The suggestion that the proposed agricultural building at Cornell University be called Roberts Hall was adopted with great applause.

Not in Favor of Nursery Bill.

The society declared itself as not in favor of the federal bill relating to nursery stock now pending in Washington.

It was decided to incorporate the society.

The fruit exhibit included 175 varieties of apples. U. T. Cox, of St. Lawrence county, exhibited handsome Rome Beauties. He harvested 2,500 barrels of this variety last fall. He exhibited also a new variety, the Ensee, which won first prize at the Ohio Society's meeting. A unique exhibit was that of Lune Moss & Co., Boston, consisting of four types of 1½ horse power combination gasoline engines and pumps for spraying. The Spraymotor Company of London, Canada, and Buffalo, had an exhibit of sprayers and nozzles.

Co-operative Buying.

Members of the society have profited by the co-operative plan of buying fertilizers and chemicals. Last year forty carloads of fertilizer chemicals were sold to members of the association at a saving of \$15 per car. The association can buy these chemicals in large lots cheaper than most jobbers can procure them. Acid phosphate can be laid down at points on the Central and West Shore railroads at \$11.50 per ton in car lots.

The association bought and sold thirty-seven tons of other chemicals, mostly for spraying purposes. About 90 per cent. of this was blue-stone, or copper sulphate, used for making bordeaux. One ton of brimstone was sold for bleaching purposes at canning factories.

Officers Elected.

These officers were elected:

President, Thomas B. Wilson, Ontario county; first vice-president, John T. Roberts, Onondaga county; second vice-president, J. B. Collamer, Monroe county; third vice-president, Albert Wood, Orleans county; fourth vice-president, Ira Pease, Oswego county; secretary, F. E. Dawley, Fayetteville; treasurer, Charles H. Darrow, Ontario county; executive committee, T. B. Wilson, chairman, Dr. C. A. Ring, S. W. Wadhams, W. L. McKay, James Wood; legislation, S. D. Willard, Albert Wood, H. S. Wiley, F. M. Bradley, E. B. Norris and W. W. Phipps; transportation, C. H. Perkins, L. A. Bradley, John Anderson, G. E. Ward, W. H. Hart; special St. Louis committee, H. S. Wiley, S. D. Willard, H. C. Hooker, George E. Ryckman and one to be named at the Poughkeepsie meeting, January 30-31; special St. Louis fair committee, J. G. Patterson, Harry Brown, J. B. Collamer and Charles H. Royce.

Thomas B. Wilson, the new president, is a well known fruit grower of Ontario county. He is also on the board of directors of the New York experiment station at Geneva.

Prof. Bailey spoke on "Recent Opinions Regarding the

Tillage of Orchards." Prof. F. W. Taylor talked of the St. Louis exposition. C. H. Perkins reported on transportation rates. H. S. Wiley reported on the state fair exhibit. The annual meeting next year will be held in Geneva, N. Y. The society has 1,100 members.

SALISBURIA ADIANTIFOLIA.

Editor NATIONAL NURSERYMAN:

Old nurserymen will scarcely agree with W. A. Merrill, of Cornell University, as per bulletin noticed by you in January number, that the ginkgo is a "new tree." It was introduced into England from Japan in 1754, and many fine specimens are to be found there. I remember a tree of it at Longleat in 1854, being then over thirty feet in height, which has now attained a large size. I found a tree of it on grounds on East avenue, Rochester, N. Y., when I took charge of the place in 1859, which is now a fine specimen; and to my knowledge this tree has never been hurt in the least by severe weather. There are many fine samples of it here in this city and I hope they will increase in number in the near future.

I can add my testimony to its being a very interesting tree. Its leaves are shaped like the *Adiantum* ferns and the name it is best known by is "Maiden Hair Tree." It is also interesting as being one of the existing trees of prehistoric times, being found in coal formations in various localities. It was named after Richard Anthony Salisbury, an eminent English botanist. As a street tree and for other places adapted for it, it is a unique and perfect variety. It is not much umbrageous and does not throw a dense shade, but it has other desirable qualities to make up for it. It transplants as readily as the ubiquitous Carolina popular, at any size, and will succeed in any good, well-drained soil. Although it does not make a quick start after transplanting for a season or two, it soon gets over its removal and grows satisfactorily.

We have distributed it by hundreds for several years past and hope to see it more freely used in the future.

I think if this tree were used alone as a memorial tree, to which position I would urge its use, greater interest would be attached to memorial trees, as they being so distinct would convey memorial thought when and wherever seen.

It does not suffer from any insect pest whatever, and will take care of itself. It is one of the conifers (cone-bearing). The male flowers are produced on one tree and the female flowers on another. It has frequently borne seed at Washington, D. C.; also at Philadelphia, Pa. I think its planting should be encouraged as much as possible, but be sure to give it its right location.

JOHN CHARLTON, of
John Charlton & Sons.

Rochester, N. Y., Jan. 22, 1903.

[In the *Cyclopedia of American Horticulture*, W. A. Taylor, assistant pomologist, U. S. Division of Pomology, Washington, D. C., says of the ginkgo, or Kew tree: "Introduced to America early in the century, and generally successful on good soil in the eastern states as far north as Eastern Massachusetts and Central Michigan and along the St. Lawrence river in parts of Canada. Of special value for solitary planting to secure picturesque effects. Considerably planted in Washington, D. C., where it is growing in esteem as a street

tree because of its upright habit and freedom from insect injury. Easily propagated from seed, stratified in autumn; varieties by budding and grafting. Several horticultural forms are recognized, including *laciniata*, *pedula* and *variegata*. The foul odor of the ripe fruits, which continue to mature and drop during a period of some weeks, constitutes the chief objection to the species as a street tree, or near dwellings and suggests the advisability of propagating from staminate trees by grafting or budding, for planting in such locations. The kernels, which have a sweetish, slightly resinous flavor, are highly esteemed for food in China and Japan, and are gathered from fruiting trees in Washington for such use by Chinese laundrymen. The word ginkgo seems to be pronounced with a hard initial G in the Orient, but in the English a soft G should be used. The name is often spelled ginko, but the other spelling is preferable, because Linnæus spelled it so in the generic name."—EDITOR.]

BEN DAVIS' MARRIAGE TO A WESTERN BEAUTY.

Ben Davis was a Wealthy Mann. He was married to a Western Beauty by the name of Caroline R. June in Early Harvest by a Fameuse Dominie by the name of Gideon. They journeyed by Horse to Lowell, where they were seen by a Northern Spy by the name of Jonathan Baldwin, who was drunk on Smith's Cider and who lives on the St. Lawrence tributary to the Wolf River. He was Stark mad and saw Stars in mid-day which made the Maiden Blush. An Arkansas Black Senator, Peter Longfield, by name, a perfect Paragon, was sitting on a Stump near a Smoke House eating a Golden Sweet Winter Banana that was very Early Ripe, bought at Cooper's Market. He saluted the Lady who wore a Red Astrachan and carried on her arm a McIntosh fit for a Bismark or even a King, and upon her corsage she wore a Bell-flower imported from Ontario by a gentleman by the name of Rolfe Vandevere, who is employed by the Duchess of Oldenburg, wife of Alexander Wagener, Esq., nephew of the late Walter Pease, Primate of Lankford, whose marriage to Lady Henniker, daughter of the York Imperial and author of *Ivanhoe*, was such an Opalescent failure. We recall that he borrowed money of a Wine Sap-ped Jew by the name of Gravenstein and Haas never paid it back and Swaars he never will.

This couple visited Pewaukee, stopping at Hotel Salome, where the Porter cared for their baggage. They attended Ewalt theatre and enjoyed the great Russian actors—Sitovka, Tetofsky, Arabskoe, and also Talman's Sweet voice. Belle de Boskoop's "Sweet" Bough, in response to an encore was exquisite. The after theatre lunch consisted of Jersey Sweet potatoes, Delaware Red herring and Chenango Strawberrys with Canada Red wine. They returned home via Greenville, on account of Maxson's Early morning telegram inviting them to visit Peck's Pleasant summer residence at Baxter. They will spend next winter at Scott's Winter home at Spitzenburg in company with their friends, Mr. and Mrs. R. I. Greening (nee Benoni Boiken of Walker, formerly known as Walker's Beauty), where Mr. Davis will receive treatment for the injury caused by being struck by a Mammoth Black Twig, by the well known specialist, Dr. Hubbardston Nonesuch Walbridge.

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COLONIST RATES VIA WABASH RAILROAD,

On sale February 15th until April 30th inclusive. Only \$42.00 Los Angeles, San Francisco, Portland, Seattle, Tacoma. Correspondingly low rates to intermediate points. Call on nearest ticket agent for details or address

JAMES CASS,
New York State Passenger Agent,
287 Main Street,

R. F. KELLEY,
General Agent,
Passenger Department,
Buffalo, N. Y.

Among Growers and Dealers.

J. H. Hale of Georgia says there is overplanting of peach orchards. Idaho has 25,000 acres in apples; 22 carloads were shipped out in 1902. A vineyard company at St. Joseph, Mich., will plant 700 acres to grapes.

Pierce Bechtle, LeMars, Iowa, has increased his nursery from 75 to 200 acres.

It is reported that early frosts killed thousands of Crimson Rambler rose plants in Holland.

James N. Kennedy of Dansville, N. Y., called upon Rochester nurserymen last month.

F. A. Waugh, Amherst, Mass., wants any number of Sand Cherry stocks from 100 to 5,000.

H. G. Hinkley, florist, Rockford, Ill., has purchased the nursery business of R. B. Van Valkenburg.

T. C. Thurlow, West Newbury, Mass., who has been in poor health, is spending the winter in the South.

The firm of W. A. Manda, South Orange, N. J., has been incorporated with a capital stock of \$150,000.

J. H. M. Edwards, nurseryman, at Logan, Iowa, is president of the Southwestern Iowa Horticultural Society.

Fred L. Harris, for forty years gardener at the famous Hunnewell estate at Wellesly, Mass., died January 11th aged 80 years.

Considerable work was done last season in the crossing of Ben Davis and Mercer Crab at C. L. Watrous' nursery, Des Moines, Iowa.

William Ilgenfritz, of I. E. Ilgenfritz' Sons, Monroe, Mich., called upon Western New York nurserymen during the latter part of January.

Prune and apricot trees have been selling at \$12 to \$15 per hundred in Southern California. For Napoleon Bigarreau cherry \$25 has been offered.

Some damage to peach buds, it is believed, followed severe cold in December and January in New York, Connecticut and perhaps some other states.

Prof. F. A. Waugh regards the Windsor Chief as a desirable commercial apple for northern latitudes. It has remarkable keeping and shipping qualities.

R. H. Long, Edwin Barlow and R. L. Taylor are among the incorporators of the Greenville Nursery and Floral Co., Greenville, Texas; capital stock \$20,000.

A. D. Shamel, of the Agricultural College of Illinois, will this year take up the study of plant-breeding with Dr. Weber, of the U. S. Department of Agriculture.

Irvin Ingels, LaFayette, Ill., in his annual review of fruit conditions in the northwestern part of Illinois, says the prospects for a good crop of staple fruits are excellent.

The R. M. Kellogg plant farm at Three Rivers, Mich., will pass into the hands of a stock company in the spring. Mr. Kellogg as president will retain a controlling interest.

New England and New York state florists protest strongly against the increase of express rates for cut flowers by the Adams, American and National Express companies.

Arthur L. Towson, Washington Co., Maryland, is secretary of the Western Maryland Horticultural Society. He has 2,000 trees in bearing and will plant 1,500 this spring.

Alexander Pullen, Milford, Del., who is spending the winter in Dover, will soon begin the manufacture of a complete machine canner and preserver of fruits and vegetables.

H. S. Wiley of Cayuga, C. M. Hooker, Rochester, and S. D. Willard, Geneva, constitute the committee to look after the display of fruit to be made by the New York State Fruit Growers at St. Louis.

E. B. Engle, Waynesboro, Pa., secretary of the Pennsylvania Horticultural Society, has held that position since 1874. In August, 1901, he was appointed by Governor Stone inspector of nurseries.

Frank W. Glen, formerly president of the Planters Nursery Co., of Chicago, has severed his connection with that company and has taken a position with the Phoenix Nursery Co., of Bloomington, Ill.

It is said that H. S. Wiley, Cayuga, N. Y., called for more baked apples than any other man at the convention of New York fruit growers in Buffalo last month. We should practice what we preach.

The annual meeting of the American Seed Trade Association will be held in Philadelphia in June. Walter P. Stokes is president, C. N. Page, vice president, and S. F. Willard, Wethersfield, Conn., secretary and treasurer.

The Patent Office, according to a New York paper, has refused to issue a copyright for a new flower to be known as the "Roosevelt Rose," on the ground that the consent of the President of the United States had not been obtained for the use of the name.

William Smith, Geneva, N. Y., of the W. & T. Smith Company, was confined to his house ten days last month on account of an accident in which he was knocked down by a runaway team. He was not seriously injured. He still has strength and vigor, despite his 84 years.

Silas Wilson, Atlantic, Iowa, writes: "I have more trade by one-half than I have stock to sell. Trade has never been so good as the last fall and this winter. Peach trees, apple trees and grape vines are all scarce and high. I appreciate the value of your columns as an advertising medium."

The Elm City Nursery Company of New Haven, Conn., of which Ernest F. Coe is president and treasurer and H. E. Turner is secretary and manager, have recently leased the Cleveland Smith farm adjoining their nurseries on the south. This will be planted largely to ornamentals to grow on into specimens.

President Charles A. Ilgenfritz of the American Association of Nurserymen, called upon Rochester nurserymen on his way home from the meeting of the committee on legislation at Washington last month. President Ilgenfritz is enthusiastic over the amount of good that the American Association can do for the members if the right plans are carried out. He believes in active committee work.

EASTERN NURSERYMEN'S ASSOCIATION.

At the meeting of the Eastern Nurserymen's Association, January 28th, a committee was appointed to co-operate with the committee of the American Association on transportation regarding the subject of freight rates. The officers were re-elected: President, W. C. Barry; vice-president, C. H. Hawks; secretary and treasurer, William Pitkin.

THE FEDERAL BILL.

The legislative committee of the American Association of Nurserymen met in Washington January 6th. All the members, including President Ilgenfritz, were present. The committee found that Congressmen Joseph G. Cannon and James Breck Perkins were opposed to the bill; the first because of the money involved, the second because of complaints by constituents. Chairman Watrous is of the opinion that further effort at this time would be useless.

CENTRAL MICHIGAN NURSERY EMPLOYEES.

One hundred officers and employees of the Central Michigan Nursery, Kalamazoo, Mich., and their wives enjoyed a banquet January 20th as the guests of the company. The president of the company, Dr. William E. Upjohn, was the toastmaster. There were speeches by Charles A. Maxson, for the management; Fred W. Remington, for the employees; C. A. Krill, "The Nursery Salesman"; W. C. Cook, "Greenhouses"; E. C. Foster, "Landscape Gardening." The officers of the company are: President, W. E. Upjohn; vice-president, J. W. Rose; treasurer and general manager, Charles A. Maxson; secretary, C. A. Krill; manager greenhouses, W. C. Cook; superintendent of Three Rivers branch, C. C. Nash; landscape artist, E. C. Foster.

Horticultural Societies.

NEBRASKA—At the meeting in Lincoln, Jan. 13-15, Peter Youngers, of Geneva, was elected treasurer; G. S. Christy, president; L. M. Russell, of Lincoln, secretary.

IDAHO—The annual meeting of the Idaho State Horticultural Society was held at Boise City, January 13-15. There was a good display of apples. Several legislators were present. Thomas C. Galloway, of Weise, was elected president; Robert Milliken, Nampa, secretary.

CONNECTICUT—The state society at Hartford last month decided to join the American League for Civic Improvement. These officers were elected: A. C. Sternberg, president; R. A. Griffing, D. A. Lyman, Robert Veitch, Robert Coit, Edwin Hoyt, T. S. Gold, A. N. Pierson, vice-presidents; L. H. Mead, Hartford, secretary; W. W. Hunt, treasurer.

KANSAS—Thirty-sixth annual meeting of state society at Topeka, Dec. 29-31. Present indications are that fruit growers will have a bountiful harvest in 1903. Philip Lux, of Topeka, read an interesting paper on "Plant Breeding." He stated that one of the most detrimental features in apple growing was the selection of trees from the nursery without any regard for the class of trees they belonged to, aside from the name, which was often incorrect. He thinks nurserymen should furnish a pedigree with all stocks sold. He said that the reason the Winesap and the Missouri Pippin had become small and so unfit for market was on account of careless propagation, and because nurserymen were careless in the breeding of their trees, and that the reason the Ben Davis, which is a poorer apple, is in demand in the market is because it has not been allowed to run down. These officers were re-elected: President Fred Wellhouse, of Topeka; vice-president, J. W. Robinson, of Eldorado; treasurer, Frank Holsinger, of Topeka, and secretary, William H. Barnes, of Topeka.

OHIO—The thirty-sixth annual meeting of the State Society was held at Clyde, December 16-18. Ad interim reports were to the effect that the strawberry crop outlook is not reassuring. Early Harvest, Erie and Eldorado blackberries and Kansas and Cumberland black raspberries were voted the best varieties for Ohio. Continued spraying is necessary to secure plum and grape crops. Peaches along the lake shore were a heavy crop, but many thousands of bushels rotted on the trees because of the wet season. A discussion arose over the Kieffer pear and the Ben Davis apple. Both were roundly criticised, but both had friends. Some declared they preferred to grow Kieffers at 25 cents per bushel than Bartletts at \$1. Grimes' Golden is a favorite apple throughout Ohio; Baldwin, Red Canada and Baltimore in the northern section and Rome Beauty and York Imperial in central and southern portions. The planting of apple trees on road sides, to be used as living fence posts, was advocated. Apple trees are better for this purpose than taller growing trees like the maple, it was argued, because the latter shade the roadway too much and retard the drying up of the mud in the spring.

NEW JERSEY—At the annual meeting, at Trenton, President W. H. Reed said: "We are in the midst of an era of great prosperity. We know of farms devoted largely to horticulture that paid last year 20 per cent. or more on the investment." It has been a banner year for apple orchards, 1,000 barrels to an ordinary sized orchard, and fifty bushels to a tree having been recorded, the fruit being large and without blemish. The report of the treasurer, Ira J. Blackwell, of Titusville, showed a balance on hand of \$866.77. Charles J. Black, of Hightstown, read the report of the fruit committee, which showed that during the past season the quality and quantity of fruit had generally been above the average. First-class fruit, when properly marketed, the report says, has been satisfactory to growers, except in the case of Keifer pears, the crop of which had been held until too late. Professor John B. Smith, state entomologist, read a paper on "Law and the Horticulturist." He showed the conditions as regards legislation and the nurserymen, saying there were some really serious grievances which should be righted. The result was the appointment of a legislative committee with these members: Former Assemblymen J. Warren Fleming; J. B. Ward, of Lyons Farms; S. B. Ketcham, of Pennington; Joseph H. Black of Mercer, and D. D. Devise, of Monmouth. The state board of agriculture will be asked to co-operate in

securing legislation. These offices were elected: President, William H. Reid, Tennant; vice-president, William H. Skillman, Rocky Hill; secretary, Henry I. Budd, Mount Holly; treasurer, Ira J. Blackwell, Titusville; executive committee, Dr. J. B. Ward, Lyons Farms; E. P. Beebe, Elizabeth; D. A. Vanderveer, Freehold; C. L. Jones, Newark; H. E. Hale, Princeton.

CALIFORNIA—The annual meeting of the California Fruit Growers' Association was held in San Francisco, Dec. 2-4. President Cooper said the marketing of fruit the past year was not successful. Dangers from insect pests were considered and an appropriation of \$10,000 was recommended to search for parasitic enemies of the orchardists' foes. C. H. Rogers, discussing "The Apple Industry of California," said that last year's crop reached a value of \$2,000,000; but the railroads took still more for transporting the fruit to market. The yield was 3,250,000 boxes, but other thousands of boxes rotted on the ground for lack of help to harvest them. He thought there was an overwhelming sentiment among growers in favor of allowing a limited number of Chinese to come to the state, so that farmers' wives and daughters need not go into the orchards and labor like coolies to save fruit. A resolution to that effect was adopted. E. F. Adams, of San Francisco, argued for co operative action. A. H. Naftzger, of Los Angeles, stated that the existence of private car lines controlling the cars and the means of refrigeration has been and is to-day one of the heaviest burdens upon the fruit industry of California. It has levied millions of tribute upon the fruit shipments, a very large proportion of which were excessive and iniquitous. A. H. Judd, of Watsonville, said they were congratulating themselves on getting a reduction to Mississippi points from \$1.05 to 85c. a hundred, while Oregon has a rate of 60c. The California Water and Forest Association (of 7,000 members) held its fourth annual convention at same time and place. A resolution was adopted asking for an appropriation of \$75,000 for the government office of irrigation, to continue a careful study of irrigation problems in California, and her representatives in Congress were asked to do all in their power to secure it.

PENINSULA—The sixteenth annual meeting was held at Newark, Del., January 6-8. President A. N. Brown called attention to the large increase of perishable shipments over the Delaware division of the Pennsylvania railroad, and cited the following interesting figures furnished by Charles E. Kingston, division freight agent:

Out of a total number of carloads of perishable products in 1901, 692 were refrigerator cars, while in 1902, 1,138 refrigerator cars were used, an increase over 1901 of 446 cars, divided as follows: For 1901, 373 cars of berries, 290 of peaches and 29 of apples and pears, while in 1902 582 cars were berries, 447 peaches and 109 apples and pears; the remainder of the perishable shipments were forwarded in ventilator cars. Out of the total of 4,660 carloads of berries and peaches the past season from the Delaware division, 51 berries and 808 peaches went to Jersey City, and 6 berries and 205 peaches to Philadelphia, the balance, 3,540 cars, were shipped to 69 cities, with an aggregate population of over 12,000,000, located in 14 states, with an aggregate population of over 37,000,000. This represents practically the extent of the market for our horticultural products, reached in 43 hours or less by special fast trains. It is also interesting to know that last season 582 cars of berries were forwarded in refrigerator cars and 50 in ventilator cars, while there were 447 refrigerator carloads of peaches against 1,344 ventilators.

The strawberry industry upon the Peninsula has been of gradual growth, from 20 cars in 1868, to 2,045 cars in 1902. This growth, with but one exception, covering a period of a few years, has been constant, a marked increase each year, showing the crop to be a certain one, rarely affected by weather conditions, which either injured or entirely destroyed tree fruits. In contrast with this are the varying yields of the peach crop covering the same period, from 1868 to 1902. Many years the crop was either a total failure or very light, while in others it was abnormal. As for instance, the crop of 1875 was 9,000 car loads, of 1888, 5,000, of 1893, 7,000, of 1896, 5,000, while last year 2,954.

These officers were elected: President W. G. Dawson, Cambridge, Md.; vice-president, Charles Wright, Seaford, Del.; secretary-treasurer, Wesley Webb, Dover, Del.

The tree of life, says the manager of the Central Michigan Nurseries, Kalamazoo, Mich., is one budded upon a branch root seedling, buds from bearing trees dug with this company's root-protecting tree digger.

The National Nurseryman.

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VICE-PRESIDENT AND EDITOR - - - RALPH T. OLCOTT
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Advertising rates will be sent upon application. Advertisements should reach this office by the 20th of the month previous to the date of issue.

Payment in advance required for foreign advertisements. Drafts on New York or postal orders, instead of checks, are requested.

Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, Charles A. Ilgenfritz, Monroe, Mich.; vice-president, D. S. Lake, Shenandoah, Ia.; secretary, George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

Executive Committee—William Pitkin, Rochester, N. Y.; N. W. Hale, Knoxville, Tenn.; Peter Youngers, Geneva, Neb.

Committee on Transportation—President Ilgenfritz, ex-officio; A. L. Brooke, N. Topeka, Kan.; Henry Chase, Huntsville, Ala.; E. Albertson, Bridgeport, Ind.; Howard Davis, Baltimore, Md.

Committee on Tariff—Irvine Rouse, Rochester, N. Y.; Thomas B. Meehan, Germantown, Pa.; J. H. Dayton, Painesville, O.

Committee on Legislation—C. L. Watrous, Des Moines, Ia.; Silas Wilson, Atlantic, Ia.; Charles J. Brown, Rochester, N. Y.; George A. Sweet, Dansville, N. Y.; Robert C. Berckmans, Augusta, Ga.

Committee on Programme—George C. Seager, Rochester, N. Y.; Wilson J. Peters, Troy, Ohio; J. Horace McFarland, Harrisburg, Pa.

Committee on Publicity—C. M. Stark, Louisiana, Mo.; Ralph T. Olcott, Rochester, N. Y.; F. H. Stannard, Ottawa, Kan.

Annual convention for 1903—At Detroit, Mich., June 10-12.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., FEBRUARY, 1903.

ANOTHER ACTIVE SOCIETY.

The second annual meeting of the New York Fruit Growers Association was a surprise to those who were not aware of the remarkable growth of this newest of large horticultural societies. The fact that in two years' time a society of fruit growers can reach a membership of 1,100, with 880 paid members and hold a meeting with 500 members present is proof that the Empire state is maintaining its reputation as a great fruit growing state.

Two years ago it was felt that the fruit interests of New

York state demanded a business organization that could collect reliable statistics, influence business interests and aid in the development of new markets; and this society is the outgrowth of that feeling. It is probable that its membership will be largely increased. The society held its eastern meeting in Poughkeepsie, January 30-31.

As we go to press another great horticultural society of New York state, the Western New York Society, has just closed its annual session. The aim of this society is to pass the 500 mark in membership in the near future. Its proceedings are valued highly by all who are in any way interested in fruit culture. Its sessions this year were held in Colonial Hall, Rochester, a new and commodious meeting place where every convenience for the discussion of topics and the display of fruit and apparatus was afforded. Secretary Hall and President Barry have been tireless in their efforts to advance the interest of all the members.

Surely New York is awake on the subject of fruit growing, and the nurserymen of the Empire State are fully alive to the importance of the industry.

THE DETROIT CONVENTION.

The annual convention of the American Association of Nurserymen will be held this year in Detroit, four months hence. It is none too early to discuss measures for making this meeting the best that has been held. We are pleased to note that the president of the Association, Charles A. Ilgenfritz, of Monroe, Mich., heartily indorses the position that has long been maintained by the NATIONAL NURSERYMAN, that these annual meetings of the Association should be made as much of as possible, to the end that those who attend them may receive profit and pleasure thereby, and those who do not attend them may be attracted to them.

Naturally the subject first at hand is the matter of the programme. We understand that President Ilgenfritz has been giving this subject considerable thought, and that he has been in communication with the members of the committee on programme, Messrs. Seager, W. J. Peters and McFarland. The members of the Association may expect that their interests will be well taken care of in this matter.

We have argued that in view of the many and varied interests of the nurserymen, these annual meetings should be characterized largely by business discussions rather than topics which more properly come under the head of schools or "institutes." For this reason we have urged the importance of arranging the programme so that it should include an open discussion of business methods pertaining to the nursery trade; a frank interchange of opinion of various methods directly bearing on the daily routine, and the advancement of progressive forms of handling the nursery business. There has lately been a well-defined sentiment among the members of the Association that the reading of long papers, especially upon scientific subjects, at these annual meetings takes up time that could better be devoted to lively and profitable discussion of topics in which all are especially interested.

President Ilgenfritz made a valuable suggestion after his election in Milwaukee last year, and acted promptly on it by appointing a committee on publicity. The scope of the work of this committee is to advance the interests of the Association by heralding it and its objects to the public. It is pro-

posed to announce in the public press in advance of the meeting the date and place, and, as arrangements are made, some features of the programme; also to inform the public regarding a national association representing one of the most important industries. The American Association of Nurserymen has been holding annual conventions in the large cities of the country at widely separated points; has discussed questions affecting residents of many states, has passed resolutions and has sought national legislation. But its proceedings have been so quietly conducted that it is by no means generally known that such an association exists—much less that it is a body of men prominent in the world-wide work of improving the landscape and furnishing the means of providing one of the most important of food products. It is believed that a wider publicity would result in immediate benefit to the Association when its representatives appear before state or national legislators or officials clothed with power to aid or hinder the business of its members. President Ilgenfritz has made an important innovation. Much credit is due him for this and other progressive ideas, in connection with the Association.

NURSERY STOCK FOR VIRGINIA.

Through the efforts of Irving Rouse, of Rochester, N. Y., and the authorities at Albany, an arrangement has been made whereby the entrance of nursery stock from New York state into Virginia will be facilitated. State Entomologist Alwood, of Virginia, has hitherto refused to accept the work of the New York State Department of Agriculture upon its merits. An arrangement has now been made whereby Mr. Alwood will accept the indorsement by State Entomologist E. P. Felt, of Albany, on certificates issued by the State Department of Agriculture.

Nurserymen who desire to have the indorsement of the state entomologist should make application through the commissioner of agriculture and should request that the certificate bear the name of the inspector as well as the signature of the commissioner.

THE MACDONALD APPLE.

We received from Luke Brothers Company, Montreal, Canada, on January 26th, an apple of the Macdonald variety, the new winter apple of that company. It was firm and fresh as when picked from the tree and of a flavor, even before it was cut, that presaged its excellent quality. It is not saying too much to declare that the specimen sent us, for freshness and crispness, flavor, solidity and keeping quality, as well as attractive appearance, has not been excelled and has seldom been equalled by any that has come to us from the northern sections of the country. The Macdonald is especially adapted

for culinary purposes, and it is in the front rank. It is a native of the province of Quebec. Apples so fine as this from the latitude of Quebec should be valued highly; they are added evidence of what intelligent study of climatic and other conditions can produce.

Long and Short.

For labels, call on Benjamin Chase, Derry, N. H.

For evergreens call on the specialist, D. Hill, Dundee, Ill.

Grape cuttings may be had of Lewis Roesch, Fredonia, N. Y.

For first class apple trees call on O. K. Gerrish, Lakeville, Mass.

Strawberry plants are specialties with Flansburgh & Peirson, Leslie, Mich.

Poplars, Norway maples, Osage orange, etc., at Josiah A. Roberts', Cow peas and assorted peach trees may be had of J. Van Lindley, Pomona, N. C.

Apple and peach trees and ornamental shrubs may be had of W. B. Painesville, O.

The Feigly tree digger is a money saving tool for nurserymen. D. Feigly, Medway, O.

Stark Brothers, Louisiana, Mo., offer in another column a long list of standard nursery stock.

The Albaugh Nursery and Orchard Co., Phoneton, O., offers surplus stock in another column.

A. Willis, Ottawa, Kan., has a choice line of standard nursery stock. See his announcement herein.

California privet, Osage orange, nut trees, etc., are offered by Rakestraw & Pyle, Kennett Square, Pa.

One hundred thousand extra fancy Bartlett pears are offered by Fancher Creek Nurseries, Fresno, Cal.

Strawberry plants in great variety are offered by the extensive growers, J. G. Harrison & Sons, Berlin, Md.

J. W. Kerr, Denton, Md., has 20,000 peach, nice clean trees; and 10,000 plum, 3 to 5 feet. Prices low.

A Caldwell steel tower will bear four times the weight of the water tank. W. E. Caldwell, Louisville, Ky.

The surplus list of the Franklin Davis Nursery Co., Baltimore, Md., is ready; all fresh from the nursery rows.

Three millions of well rooted strawberry plants are offered for spring by William M. Peters' Sons, Snow Hill, Md.

Hardy herbaceous plants, Japanese iris, German iris and peonies are specialties with J. T. Lovett, Little Silver, N. J.

A. E. Windsor, Havana, Ill., offers one and two year osage hedge plants for fence, screens, windbreaks, groves, etc.

Nurserymen's knives, hand-forged, of razor steel, warranted, are those sold by Maher & Grosh, 90 A street, Toledo, O.

Haymaker, the new raspberry, is a specialty with W. N. Scarff, New Carlisle, O., who has everything in small fruit plants.

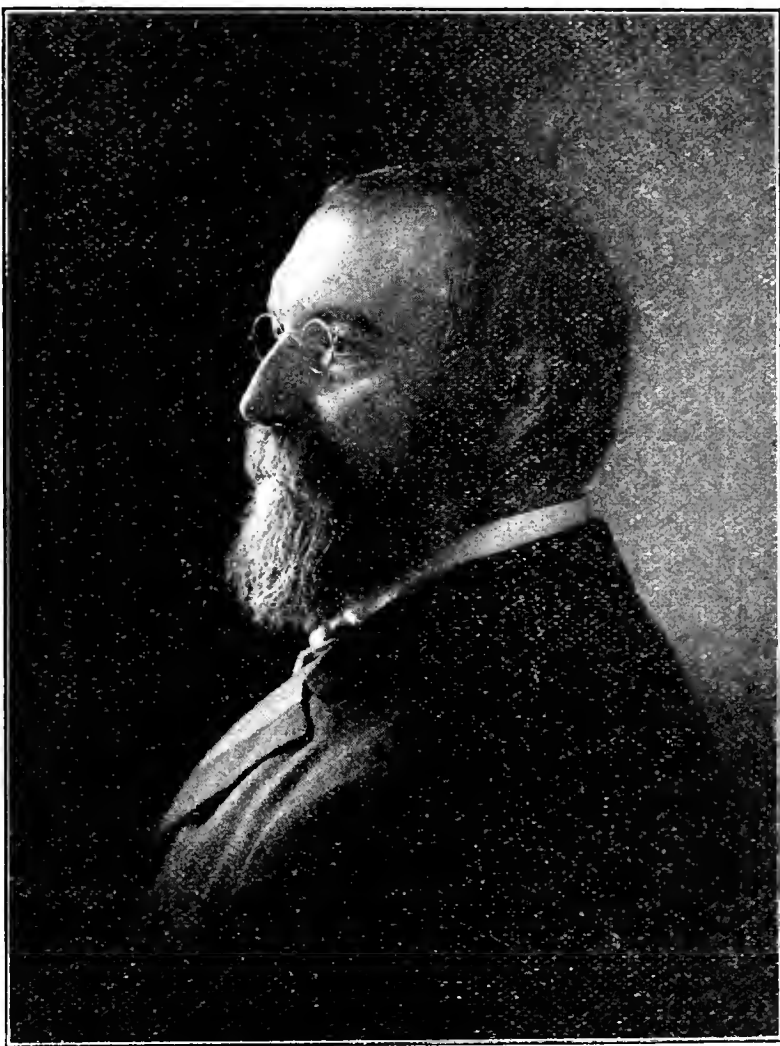
Z. K. Jewett, Sparta, Wis., offers Wealthy apple, Early Harvest pear, Marlboro raspberry, dry baled sphagnum moss, etc.

Emporia Nurseries, Emporia, Va., have horse chestnuts, sweet gum and tulip trees to exchange for pear and apple seedlings.

Hitchings & Co. have the contract for a large range of greenhouses at South Elizabeth, N. J., for the Pennsylvania R. R. Co.

A surplus of apple, peach, Norway maple, Irish juniper, Abundance and Hale plums is at C. L. Longsdorf's nursery, Floradale, Pa.

George Peters & Co., Troy, O., offer apple, cherry, pear, plum, etc., rhododendrons, and a good supply of Bartlett and Keiffer pears.



PETER S. PETERSON,
Died January 19, 1903.

Every variety of twines and ropes used by nurserymen is manufactured by Hooper Sons' Manufacturing Co., 509 Arch street, Philadelphia.

Almost half a century of fair dealing has given the products of the Storrs & Harrison Co., Painesville, O., that prominence which merit deserves.

A large assortment of general nursery stock is offered by the Pioneer Nurseries Co., Salt Lake City, Utah. Ben Davis and Gano apples; Bartlett and Rossney pears, etc.

To clean up some blocks of cherries, nectarines, grapes, English walnuts and citrus trifoliata, the P. J. Berckmans Co., Augusta, Ga., makes special low prices. They have a fine line of other stock.

The new "Burnham" sectional hot water boiler, for large and small ranges, affords the highest economy. It is made and sold by Lord & Burnham Co., Irvington-on-the-Hudson, N. Y., manufacturers of greenhouses and conservatories complete.

The Phoenix Nursery Co., Bloomington, Ill., regards the Mesereau blackberry as the greatest small fruit acquisition of the age. Its cardinal properties are great size, great hardiness of cane and great productiveness. It originated with J. M. Mesereau, Cayuga County, N. Y.

Obituary.

P. S. Peterson, one of the most widely known and declared to be the wealthiest Scandinavian in America, died Jan. 19th. He was proprietor of the Rose Hill Nurseries, near Chicago, which he founded. Mr. Peterson was born in Sweden June 15, 1830. After five years in the gardens of his native land he spent three years on the continent, in leading horticultural institutions at Hamburg, Erfurt and Ghent, at which latter place he was with Louis Van Houtte. He came to Toronto in 1851, and soon saw that the most open chances for success lay in the United States, and went to Rochester, N. Y., and obtained employment with Frost & Co., nurserymen at \$8 per month. Within three years he had acquired the English language and was working for Ellwanger & Barry for \$100 per month. In 1856 Mr. Peterson established the nursery business at Rose Hill which now comprises 496 acres. He was the first nurseryman in Chicago to move large trees, and all the city's parks and boulevards as well as those of other places contain his products. In 1895, William A. Peterson was admitted to the firm, and soon thereafter assumed the management of the concern.

Mr. Peterson was widely known as a philanthropist. He opened Peterson avenue, Chicago, for a distance of three miles at his own expense. He was for many years a member of the Union League and Germania clubs, and of horticultural societies at home and abroad. In 1894 he was made a Knight of Vasa by the King of Sweden. The business will be continued under the name of Peterson Nursery, Wm. A. Peterson, proprietor.

H. B. Harrison, son of J. J. Harrison, for several years with the Storrs & Harrison Co., passed away on the 17th of December of pneumonia and heart failure, after an illness of one week. Many will recall meeting him at the convention at Chicago Beach Hotel, June, 1900, on their return from California. Had been troubled with weak lungs for several years, but stood it bravely. He leaves a host of friends to mourn his loss, besides a father, sister and twin brother.

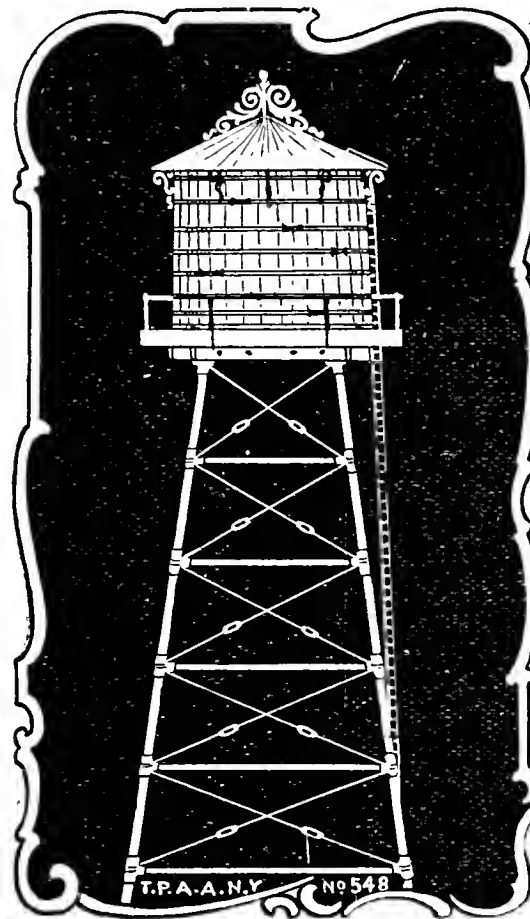
Recent Publications.

A large and unusually varied numbers of articles on important subjects appear in The World's Work for February. By much the most striking article is that on the "United States Navy at Work," by Lieutenant Commander Albert Gleaves, illustrated by twenty pages of remarkable photographs. There is an article about American skilled workmanship as shown in watch factories by P. P. Frost, some thirty-five short editorial articles in the "March of Events," and twenty more in "Among the World's Workers."

The 1903 catalogue of the Deming Company of Salem, Ohio, is just off the press. As usual, our readers will look to it to exemplify in practical form the latest ideas in spraying orchards, vines, potatoes, shrubbery, etc. The Deming people have been so long engaged in the business of making sprayers, and their whole line has been brought up to such high efficiency in the estimation of spraying people, that it has become second nature to look to their catalogue to show what is best

adapted to any particular purpose. It includes hand, bucket, knapsack, barrel, mounted and power sprayers. In certain sprayers of their line, notably the Century, Simplex, Peerless and Success Knapsack sprayers, the mechanical agitation of the liquid, insuring the perfect mixing of poison with the water, is worked out to a nicety. The wide adaptability and general usefulness of the line cannot be realized without perusing the catalogue. As usual, it will be mailed to anyone writing for it.

A Wooden Tower



IS DANGEROUS. IT IS LIABLE TO ROT AND THE WEIGHT OF YOUR TANK MAY CAUSE IT TO COLLAPSE IN A HIGH WIND

A CALDWELL Steel Tower

WILL RESIST ANY STORM AND WILL BEAR FOUR TIMES THE WEIGHT OF THE TANK

SEND FOR OUR ILLUSTRATED CATALOGUE AND PRICE LIST

W. E. CALDWELL CO.
LOUISVILLE, KY.

APPLE PEACH

LEADING SORTS, BUT HEAVIEST IN BALDWIN.

ORNAMENTAL SHRUBS

SLIM, STRAIGHT, FIBROUS ROOTED. NO CULLS IN OUR LIGHT GRADES.

SILVER & WEIR'S MAPLE. FINE STOCK.

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EXCHORDIA, HALESLIA, HYDRANGAEA, SNOWBERRY, CORAL BERRY, WIGELIA VARIEGATED, ETC.

Write **W. B. COLE, Painesville, Ohio.**

Seedlings Not Transplanted.

TO THE TRADE—Horse Chestnuts, 2 to 3, and 3 to 4 feet, by 1000. Liquidambar (Sweet Gum), 3 to 4, and 4 to 5 ft, by 1000 lots. Tulip or Liriodendron, 3 to 4, and 4 to 5 feet, by 100. Plane Oriental or Sycamore, 3 to 4, and 5 to 6 feet, 100 or 1000. Holly, 12 to 18 inches, by 100 and 1000. Will exchange any of the above for Pear and Apple Seedlings.

Wanted to Sell—One half interest in a well established nursery. Wholesale and retail trade. Address:

EMPORIA NURSERIES, Emporia, Va.

When writing to Advertisers mention The National Nurseryman.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"No one variety can be the best for all purposes."—LUTHER BURBANK.

Vol. XI.

ROCHESTER, N. Y., MARCH, 1903.

No. 3.

LATE FUMIGATION.

Result of Experiments in New York State Show That Trees Are Less Injured By Applications Just Before the Period of Budding Out Than at Earlier Stages.

The result of important experiments relative to late fumigation of nursery stock are thus pointed out by Percy L. Husted of the New York State Department of Agriculture :

LATE FUMIGATION OF NURSERY TREES.

The published data recording the effects of strong fumes of hydrocyanic acid gas upon nursery stock is exceedingly meagre. The fullest accounts of tests at excessive strengths of gas may be found in the bulletins of the Maryland Experiment Station, and in "Fumigation Methods," by Prof. W. G. Johnson.

To determine what strength of gas is required to seriously injure nursery stock which has begun to break into leaf, an assortment of standard grades of peach, pear, plum, apple, grapes and currants were taken from nursery trenches and carefully fumigated upon dates between May 19th and 26th at strengths of gas varying from one to eight times the normal strength of one ounce of cyanide per hundred cubic feet of space. The stock was trimmed and carefully planted together with an unfumigated lot, and during the summer all received ordinary nursery tillage.

The results were unexpected inasmuch as dormant peach trees have been reported killed with less than the maximum amount of gas used, and it was generally supposed that stock so far advanced was more liable to injury than that entirely dormant. Only one tree died of the entire lot, though the higher strengths of gas killed the small amount of new foliage which was out at the time of treatment.

The indications are, that precisely as was found concerning the action of oils and caustic soaps, trees are less injured by applications just before the period of budding out than at earlier stages.

Cuts taken from the series of peach lots, each consisting of twenty first-class trees fumigated one-half hour at one, two, four, five and eight times the normal strength of one ounce of cyanide per hundred cubic feet, show the condition at time of treatment and after four months growth.

In September the same trees were used in testing the effects of high strengths of gas upon bud sticks. The results of this test cannot be fully known until growth begins in the spring, but it is noted that buds fumigated with five ounces per hundred cubic feet, which was the highest amount used, have apparently united as well as unfumigated buds.

The specifications of fumigation tests made May, 1901, are :

The cyanide of potassium was fresh and 98 per cent pure.

The sulphuric acid tested 1.81 spec. grav.

The proportion of acid and of water was to the weight of cyanide as 1.5 and 2.15 are to 1.

The fumigator was of excellent construction, being of double layers of boarding, one layer tongued and grooved, with paper between the layers. The floor was the earth and the cover was brought down upon a four-inch padded surface and held by four levers. The capacity was 55 cubic feet.

The time of all exposures was one-half hour.

All trees were supposed to have been fumigated previously.

FERTILIZING NURSERY LAND.

In response to a query Prof. H. E. Van Deman says in Rural New Yorker :

Land should be put in the best possible condition to raise a big crop of corn or wheat before it is planted to grafts for growing apple trees or any other nursery stock. In all probability a coating of stable manure would be of great benefit, because it contains humus as well as the other essential elements of fertility, potash, phosphoric acid and nitrogen. Subsoiling will be a decided advantage, as it loosens the soil to a greater depth than without it, and gives the tree roots a better chance to develop. Unless the land is now quite rich it will pay to apply a liberal amount of a good commercial fertilizer. This may be made by mixing and spreading, so as to have per acre 300 pounds muriate of potash, 500 pounds acid phosphate rock and 200 pounds nitrate of soda. This mixture will cost not far from \$26 per ton. Repeated plowing and harrowing will be labor well spent.

DUST SPRAYING.

Colman's Rural World says :

At the late Missouri State Horticultural meeting such good authorities as Col. Evans, R. D. Murray and others advocated dust spraying instead of liquid spraying. W. D. Maxwell, St. Joseph, an earnest advocate of dust spraying, said that he had found the results all he had expected. The benefits of spraying are not questioned, and now it is a mere matter of the best mode of application. The time is soon coming when buyers will not buy fruit at all unless it has been sprayed; and this is even now one of the first questions asked by them. Everything used in liquid may be used in dust. Lime is a good fungicide in itself. Dust goes through all parts of the tree, killing insects that may be in the air and covering both sides of the leaves with spray. Lime prevents any burning of foliage, and with a dust spray apples never show rust. The best conditions for using dust is when the atmosphere is damp and still, as it will adhere better to the foliage, but one can spray at any time. As a rule, spray just before the buds open, and then as soon as blossoms drop, and once a week thereafter.

STARK BROTHERS' EASTERN BRANCH.

F. E. WILLIAMS NURSERY CO., DANVILLE, N. Y., write : "We have sold our nursery interests to Stark Brothers Nurseries and Orchards Company, of Louisiana, Mo., and assume the management of their eastern branch ; but we feel that we need the NATIONAL NURSERYMAN more than ever. Enclosed find \$1.00 in renewal of subscription."

OREGON FRUIT INDUSTRY.

The fruit growing industry of Oregon is most extensive in the region lying between the Cascade and Coast ranges. The value of orchard products in 1899 was \$906,015, of which amount Jackson and Douglas counties contributed more than one third. Since 1890 the total number of orchard trees in the state has increased from 1,757,893 to 6,314,232. Of this increase the gain in plum and prune trees constitutes 49.8 per cent, and that in apple trees, 34.2 per cent. During the decade the number of apple trees has more than doubled, but their percentage of the total number of orchard trees in the state has decreased from 72.2 to 44.8 per cent. Linn, Clackamas, Marion and Douglas counties together reported over one million apple trees.

The total value of nursery stock sold in 1899 was \$151,498, reported by the operator of 74 farms and nurseries. Of this number, 33 derived their principal income from the nursery business. They had 1,847 acres of land, valued at \$163,600; buildings worth \$45,300; implements and machinery, \$7,200; and live stock, \$4,770. Their total income was \$154,530.

AT VINCENNES, IND.

VINCENNES, Ind., Feb. 27.—H. M. Simpson & Sons: "We have purchased a farm of 125 acres near here to plant to apple orchard. We already have about 200 acres ten years old in the apple belt of Illinois and think it so good a thing that we are planting more. Southern Indiana is particularly adapted to growing the Wine Sap to perfection and we are going to grow a model orchard of them.

"The outlook for nursery trade for Spring is very bright and we are already selling very close on many lines. The nurserymen of the United States surely have reason to be thankful."

LIMIT REACHED IN GEORGIA?

At the recent meeting of the Georgia Horticultural Society, H. A. Mathews, Fort Valley, read a paper on "Profit Limit in Fruit Growing", in which he said:

"There is now a strong competition by Texas growers with us in the western markets. In fact, this year we have not been able to do much in the great western market by reason of the fact that Texas was sending in large quantities of her peaches, which, strange to say, were reported as being of excellent quality. This is a new competition with our section, and, like everything that those Texas people do, they threaten to overdo it.

"It would not be surprising to have Texas some summer not far distant deluge the entire country with her peaches, much as she now knocks the props from under the cotton market, causing the Georgia cotton planter much chagrin and indignation.

Considering all these things, it must be admitted that the future of the peach-grower here does not present a clear horizon.

"I do not desire to raise the alarm of the growers of peaches by the suggestions which I have made, but I think that it will be best for us all to consider the necessity that is ahead of us to make better fruit and not so much of it. If we succeed

in outliving the San Jose scale and also outlive the glut which threatens us, and which I think is practically certain, those of us who are peach-growers of the incurable habit may, if we persist and survive, find a time when we can market our peaches at a fair profit to reward our efforts and our patience.

"I do not believe that the large corporation orchards will continue long in Georgia after we reach the coming glut. They will find their dividend-making capacity gone and will be first to succumb to the necessity of meeting the new state of things by going out of business and selling their peach orchard land for cotton, corn and sweet potatoes. The business will then, I venture to predict, settle down to a basis of moderate profits, not less nor greater than those of other branches of farming in Middle Georgia. Of course, many an orchard will be cut down and planted into staple crops, and those who continue in the business of growing fruit will be careful horticulturists, whose superior skill and intelligence will make their success. They will produce finer peaches and more of them on the same amount of land and the same number of trees.

"While I am in the predicting business in this matter I will surmise that some lucky day the freight on peaches to the east will be reduced, when the railroads find that the peaches can not be shipped without reduction. I think that to predict a reduction sooner would be doing violence to all probabilities.

"As to how soon the congested state of the market will come, I think that I can say that in three years the great probability is, as appears from the increase in the plantings, that the peach crops of this section will either be sold without profit or not shipped at all.

"What remedy there may be in the canning industry I am not prepared to say. I know that at Fort Valley, where there were three canneries running two years ago at full capacity, there is only one the present season, and this is doing little. I know that the canning business was not profitable last year on account of the heavy supply of canned peaches that was manufactured.

"All these things should make us consider, before we place our orders for trees to plant another season."

TO PLANT A GREAT ORCHARD.

James McNicol, president of the Lost Springs Nursery Co., at Lost Springs, Kansas, writes to the NATIONAL NURSERYMAN that he will establish a nursery at Roswell, N. M., this spring, planting 300,000 apple grafts and other stock. A contract has been made by a land, irrigation and orchard company, by which Mr. McNicol is to rent 640 acres of land, to be irrigated by the company, into an apple orchard. Mr. McNicol estimates that 64,000 trees will be required to plant the land. The apple edition of the Roswell Journal says:

He will put in so much of of the land each year, and care for each part of it for five years from the time of planting the trees. At the expiration of five years from the time of planting the company will take charge of one-half the land, and will deed the other to half Mr. McNicol. There are now on the ground sufficient number of trees to set out 160 acres, which is the number that will be put in this winter. The yearling trees hereafter to be planted will be budded and raised on the land here, instead of being shipped from the nursery. The trees that perish after plant will be replanted. Only three varieties are being used in this orchard, viz: Missouri Pippin, Ben Davis and Wine Sap.

MAILING CATALOGUES IN BULK.

The postoffice appropriation bill, passed by the House on February 5, contains the provision that postoffices shall hereafter accept for transmission in the mails quantities of not less than 2,000 identical pieces of third and fourth class matter without postage stamps affixed, provided that the postage has been fully prepaid. Under this law catalogue houses will be able to deliver their editions to the postoffice in bulk.

BEARING TREES IN FIFTEEN STATES.

We have referred to census figures on trees in the United States. The following table showing the changes in a decade are of interest :

STATES.	BEARING TREES.	
	1890	1900
New York	14,428,381	15,054,831
Ohio	10,860,616	12,951,625
Pennsylvania	9,097,700	11,674,211
Michigan	8,582,386	10,927,899
Missouri	8,150,441	20,040,399
Illinois	6,949,336	15,058,831
Indiana	6,089,106	8,624,583
Kansas	6,068,575	11,848,070
Kentucky	5,730,144	8,707,238
Tennessee	5,020,400	7,714,053
Virginia	4,253,364	8,190,025
North Carolina	4,249,468	6,438,871
Iowa	3,640,580	6,869,588
Maine	3,003,190	.....
Arkansas .....	.....	7,496,145
Total	96,118,684	151,592,369

Commenting on these figures, Wesley Greene, secretary of the Iowa State Horticultural Society, says in the Fruitman :

"In ten years Missouri has gone from the fifth to the first place in the number of bearing apple trees; New York is second, where Ohio was, and the latter has dropped to the fourth place. Illinois now occupies the place held by Pennsylvania in 1890, and Kansas has taken Missouri's place. Pennsylvania and Michigan hold the same relative position to each other, but have gone down the scale three places; Indiana has dropped two and Kentucky has gone up one, while Virginia and Tennessee change places. Arkansas has taken the position occupied by North Carolina, and Iowa still holds her old place, No. 13.

"Missouri, Illinois, Kansas and Arkansas have made rapid progress in the last decade. Iowa is not far, geographically, from the states holding the first, third and fifth place in orcharding and will doubtless soon feel the stimulating influences which pervades them and will increase in the number of apple trees planted annually in the near future more rapidly than she has in the past."

ALABAMA HORTICULTURAL SOCIETY.

The Alabama Horticultural Society was organized on January 27th, with W. S. Heikes as president, R. S. McIntosh of Auburn secretary and treasurer, and Paul Hoffman, M. C. Scott and John Wallace as executive committee. A legislative committee is composed of Robert Chase, Prof. R. S. McIntosh, John Wallace, Dr. Wilcox and L. R. Whales. The next meeting will be held at Montgomery, Ala.

PECOS VALLEY APPLES.

Standing on the Illinois Central tracks near Harrison street is a train of fourteen carloads of apples that were grown at an altitude of 4,000 feet in a region not counted as an apple producer. The shipment is from the orchard of an individual grower, but is only a part of a consignment of ninety cars. The apples are from J. J. Hagerman's South Spring orchard, and were shipped from Roswell, New Mexico. Outside of Colorado Jonathan apples, the New Mexico fruit is said to be the finest received here this season. The varieties are Gano, Mammoth Black Twig, Winesap, Arkansas Black, Missouri Pippin, Jonathan and other choice varieties. The apples were grown on 60,000 trees, planted on 800 acres in the Pecos Valley of New Mexico, 4,000 feet above the sea. This is the second crop of any size from the orchard, which is only in its ninth year.

Irrigation is employed in raising apples in New Mexico, there being 500 artesian wells with a capacity of 500 gallons each. Roswell is 1,250 miles from Chicago, and the freight charges on the apples just arrived were \$2,800.—Chicago Tribune.

ST. LOUIS FAIR DISPLAY.

Under the classification of trees, shrubs, ornamental plants, flowers, etc., there will be installed in the Horticultural palace and on the grounds of the Universal Exposition of St. Louis in 1904, displays as follows :

TREES, SHRUBS, PLANTS AND FLOWERS.

Ornamental standard trees, seedlings or grafted.

Ornamental shrubs, deciduous or evergreen.

Plants for the park or for the garden.

Herbaceous plants grown in open ground; dahlias, chrysanthemums, etc.

Masses and baskets of flowers. Bouquets of natural flowers.

PLANTS OF THE CONSERVATORY.

Specimens of culture used in different countries for use or for ornament.

Forced culture of vegetables and fruits: Specimens of products.

Specimens and varieties cultivated for ornament: Plants from houses of moderate temperature. Plants from hot houses.

SEEDS AND PLANTS FOR GARDEN AND NURSERIES

Collection of seeds of vegetables, plants and trees.

Young trees, seedlings or grafted. Plants and flowers grown for perfumes or extracts.

GARDEN APPLIANCES AND METHODS.

Tools for gardeners and nurserymen: Spades, picks, hoes, lawn mowers, garden rollers. Tools for pruning, grafting, gathering, packing and transporting produce; pruning and grafting knives, ladders. Watering apparatus.

Apparatus and objects for ornamenting gardens: Vases, pots, chairs, seats, fountains, labels, etc.

Glass houses and their accessories: Heating apparatus, matings, etc. Aquariums, ferneries, etc., for use in dwellings.

Landscape architecture: Plans, drawings, models, books, pictures, etc.

SPACE AND POWER FREE.

There will be no charge for space occupied by exhibits, and a limited amount of power for the operation of mechanical devices to illustrate processes of special interest will be furnished to exhibitors without charge.

CONCORD, GA., Feb. 11, 1903—Smith Brothers: "We are in receipt of your February number and enjoyed looking over its sparkling pages. We always look forward with pleasure to its coming."

BARABOO, WIS., Feb. 6, 1903—M. F. Foley, president Great Northern Nursery Co.: "Your journal certainly has met with our approval since we have taken it. We would feel lost if it were not a monthly caller at our office, as it contains a great deal of information that is of importance to us in our business."

Among Growers and Dealers.

J. J. Gavatte, nurseryman, died February 2d, at Burlington, Ia.

W. C. Fourn, of Holt's Summit, will establish a nursery near Fulton, Mo.

Lewis H. Radcliffe, Marcus, Ia., is closing out the Marcus Nursery stock.

The Rochester, N. Y., Park Board will erect two propagating houses at Highland Park.

Thomas Maloney & Son, Dansville, N. Y., have purchased a farm in Sparta, N. Y., for nursery purposes.

A. Von Leuwen & Son are proprietors of the Continental Nurseries, recently established at Franklin, Mass.

Chase Brothers Co., Rochester, N. Y., have purchased the Thomas W. Bowman & Son nursery, Rochester.

C. G. Patten and daughter, of Charles City, Ia., are spending a portion of the winter in Southern California.

E. J. Holman, of Leavenworth, Kan., has been re-elected president of the Leavenworth County Horticultural Society.

W. W. Tracy has been appointed to the position of expert in seed and plant distribution, U. S. Dept. of Agriculture.

The New York Assembly is considering a bill to make the unlawful entering of a ginseng garden an act of third degree burglary.

Charles A. Maxson and William C. Cook, of the Central Michigan Nursery Co., Kalamazoo, Mich., visited Chicago last month.

In the recent municipal campaign in Concord, Ga., Charles T. Smith, of the Concord Nurseries, was re-elected Mayor without opposition.

The Board of Regents of the University of Michigan will lay out a tract of seven acres at Ann Arbor, for a botanical garden and arboretum.

The Stark Brothers Nursery and Orchard Company, of Louisiana, Mo., has purchased the Silas Wilson nursery interests at Atlantic, Ia.

Prof. Hansen, of South Dakota station, continues to urge the general planting of hardy apple seeds as a right step in the northwestern apple search.

A bill has been introduced in the Massachusetts legislature to give the electric railway companies permission to engage in the express business.

At the 39th annual meeting of the Nova Scotia Fruit Growers Association, Col. Shippy Spurr was elected president; S. C. Parker, Berwick, secretary.

J. Horace McFarland, of Harrisburg, Pa., lectured before the St. Louis branch of the Civic Improvement League, January 27th, at the Mercantile Club, St. Louis.

Leonard E. Loomis, formerly with the Storrs & Harrison Company, Painesville, O., in the greenhouse department, has accepted a position with James Eddy, Cleveland.

The fumigating station at Niagara Falls, Ont., will be opened on March 15th and remain open until May 15th. There is no change from last year's fumigating regulation.

Edwin Barlow is manager of the Greenville, Tex., Floral and Nursery Co., which has been capitalized at \$5,000. M. L. B. Seaman is president, R. L. Taylor vice-president.

The Great Northern Nursery Co., Baraboo, Wis., which has increased its capital stock to \$50,000, has awarded the contract for the construction of another packing house, 80 x 140 feet.

Apples upon the surface of which are perfectly reproduced the photographs of the Emperor and Empress of Russia and of the President of the French Republic have been recently shown in France.

The Royal Horticultural Society of England, in 1902, enrolled 1140 Fellows, the largest number elected in any one year since the society was organized in 1804. There are 116 affiliated provincial societies.

The Northwest Fruit Growers Association has elected Dr. W. G. Blalock president, George H. Lamberson, Portland secretary, with vice-presidents for Oregon, Washington, Idaho and British Columbia.

Harvey C. Stiles, formerly manager of the Chico, Cal., Nursery Company, has been appointed by the Board of Supervisors as horticultural commissioner for Butte county to succeed Col. C. C. Royce, resigned.

At the Poughkeepsie meeting of the New York Fruit Growers Association, the strongest of its kind in the country, Prof. Bailey, Dr. Jordan, J. H. Hale, Prof. E. P. Felt and S. D. Willard were among the speakers.

The New York Assembly has passed a bill providing that no person shall keep a peach tree affected with "little peach" disease without promptly notifying the Commissioner of Agriculture who may order the tree burned.

Experiments have been carried on with the Trifoliate orange crossed on the tender orange of the South, resulting in a tree that will stand 16 degrees above zero, and produced fairly good oranges, but not of the flavor of Florida oranges.

There is some talk of modifying the horticultural law in the state of Washington in such manner as to require nurseries outside of the state putting up a cash bond before they can do business within the state, instead of a surety bond as at present.

The U. S. Department of Agriculture entomologists are now convinced that the San Jose scale is no more native to Japan than it is to San Jose, Cal. They assert that it is found in Japan only where American plants, especially fruit tree stocks, were introduced.

Thomas H. Douglas, Waukegan, Ill., writes: "I have read the articles in your valued periodical on *Salisburia Adiantifolia* with interest. There is one point that has been overlooked, that is this: It is supposed to be the only broad-leaved tree that has no mid-rib to its leaves."

VALUE OF TRADE PUBLICATIONS.

There is no doubt that the trade publication of to-day is the text-book, directory and cyclopedia of the business and manufacturing world, says a writer in the California Fruit Grower. The marvelous growth of trade journalism everywhere has necessarily been the outcome of the want of direct and specific information on given lines, not shown or concentrated in the daily press. It has become the province of the trade editor to study and seek out everything in the shape of news, information and instructive matter that would help or appeal to his particular line of clientage.

Fifty years ago, says Robert Mitchell Floyd, this branch of newspaperdom was unknown, while to-day it has grown to such a power that its representatives associate on terms of equal importance with the great metropolitan dailies, and their knowledge and counsels are generally sought.

These papers cover the entire range of business and labor, including as they do, trade, commerce, mines, mechanics, agriculture, manufactures, construction and technical questions. All great commercial centers have their representative trade papers, and the rise and fall of business conditions are clearly reflected in their columns. Among the often-sought reference files in our national and state libraries, there are no publications holding more valuable records and statistical reports and comparisons than these bound and indexed volumes.

What, then, is the rightful and accepted position of this immense list of trade publications? Representative, oracle, mouthpiece; for what is uttered in the columns of these papers is but type-set thought and speech, crystalized and given out authoritatively.

MAINE POMOLOGICAL SOCIETY—An interesting programme and 1,000 plates of fruit were presented at the annual meeting at Farmington, recently. These officers were elected: President, Z. A. Gilbert, North Green; vice-presidents, D. P. Line, Leeds Centre, H. L. Leaman, East Sangerville; secretary, D. H. Knowlton, Farmington; treasurer, Charles S. Pope, Manchester.

CALIFORNIA PROSPERITY.

In its annual review and harvest edition, the California Fruit Grower states that the season for oranges and lemons, just closed, was notable for a moderate sized crop, marketed at satisfactory prices. On Oct. 1st there was sold in New York City a car of Old Mission brand of oranges, packed in Fullerton, Cal., containing 61 boxes of fancy, 238 boxes of choice and 85 boxes of standards. In price that car broke all records for California oranges at auction. The gross sale was higher than ever before; the average was higher than ever before, and the price paid for a single line of fruit was higher than ever before. Up to that sale the highest price ever obtained at a commercial auction sale, charity cars, of course, eliminated from the reckoning, was \$2,226.50. The car on October 1, grossed \$2,450.77, an increase of \$224.27. A Broadway fruiterer paid the unprecedented price of \$14 per box for some of these oranges.

The receipts in New York of California citrus fruits from September 1, 1901, to August 31, 1902 says the California Fruit Grower, were: Oranges, 2,281 cars; lemons, 190 cars, making a total of 2,471 cars. In the same period there were received from foreign countries, oranges, 117,500 boxes; lemons, 1,970,000 boxes, a total of 2,087,500. These figures serve to emphasize the importance of that city as a fruit distributing and consuming center. The growers of California have received nearly as much money for the 1901-02 crop of 19,180 carloads as they received in the previous season for 24,900 carloads.

CALIFORNIA COMMISSIONS.

At the recent meeting of the California Fruit Growers association, W. Jeffrey presented a paper in which he reviewed the work of the horticultural commissioners in Southern California. He said:

A phase of the work of our commission is the organization of the nurserymen and florists of the country for the purpose of establishing clean nurseries and greenhouses in every district. The members of the commission are members of this organization and meet with association at evenings to discuss methods of exterminating insect pests, preventing re-infection and maintaining better conditions in every way. The result, together with the rules enforced in the transportation of trees has been very beneficial, bringing a majority of the nurseries into fine condition. One inspector's report shows that he inspected 19,608 trees and plants in November. Of these only 283 trees were found infected with insect pests, and I can assure the convention that the inspection was thoroughly done.

One of the most popular of the several Chases who attend annually the conventions of the American Association of Nurserymen is John C. Chase, of Derry, N. H., whose portrait is herewith presented. It is Mr. Chase's business to help us keep our stock in order.



JOHN C. CHASE, DERRY, N. H.

THE EUROPEAN PEAR SCALE.

Prof. W. G. Johnson describes in American Agriculturist the European pear scale which had infested a pear seedling from France handed to him for inspection:

The young stock was badly pitted and indented, giving it a very irregular and deformed appearance. Careful examination shows that the seedling was infested with an insect, comparatively new in this country, popularly known as the European pear scale, and to scientists as *Diaspis piricola*. This insect has been known for many years in Europe and is quite common on pear in Germany, France and Portugal. In Italy it has been found upon apple and peach as well as pear.

During the past few years it has been detected in this country upon imported stock. In California, where it had been established near San Jose, it was reported as spreading slightly, even though it was being vigorously fought. It has the habit of secluding itself under moss on trees in California, which makes it exceedingly difficult to control. In the collection at the United States department of agriculture, C. L.

Marlatt says it is represented on pear from Germany and on apple from Italy.

In a recent letter Dr. L. O. Howard, United States entomologist, says that during the past few years they have received the insect on four or five occasions and that it is becoming more common and wide-spread all the time. From the general character and nature of the attack of this species, and the ease by which it can be distributed on seedling stock, in my opinion it is one that should receive the most careful attention by nurserymen. In general appearance it does not look unlike the San Jose scale, although it is much lighter in color, of a different shape and, in fact, belongs to an entirely different genus. Yet, to the inexperienced eye, this difference would not be detected, except by careful examination with a hand glass.

Perhaps the pitting, and deformed, irregular appearance of seedlings infested with this pest will prove the best characteristic by which it can be identified at a glance by the average nurseryman. Seedling stock, upon which it is found, should not be used for propagation and where there is any suspicion of its being infested, stock should be thoroughly fumigated with hydrocyanic acid gas in the usual way in the nursery.

I would advise nurserymen and fruit growers to be on the lookout as I consider this pest one that needs careful attention, not only on the part of nurserymen, but by inspectors and entomologists at our various experiment stations. I am informed that this seedling stock came from France, under an authorized and official certificate that it was free from scale. This is only another illustration of the unreliability of general inspection of large lots of stock. Fumigation is not only desirable, but absolutely necessary if we are to protect ourselves."

HORTICULTURE IN ST. LOUIS.

Formal announcement is made of the appointment of Frederick W. Taylor as chief of the Department of Horticulture of the St. Louis fair in 1904. He has been acting chief. He will also be chief of the Department of Agriculture. The building devoted to horticulture will cover six acres and the one devoted to agriculture, twenty acres. Surrounding these two buildings are forty-one acres of ground, the entire area of which has been placed in the hands of the chief for planting and treatment.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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Committee on Publicity—C. M. Stark, Louisiana, Mo.; Ralph T. Olcott, Rochester, N. Y.; F. H. Stannard, Ottawa, Kan.

Annual convention for 1903—At Detroit, Mich., June 10-12.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., MARCH, 1903.

PROGRESS OF IRRIGATION.

The progress of irrigation throughout the West is notable. The passage of laws and the formation of societies has given the work an impetus, and now and then news of great undertakings in this line appears.

There was consummated on February 9 one of the largest and most notable transfers of land and water ever made in Riverside County, California. In furtherance of their important deal with the Temescal Water Company at Corona, the Chase Nursery Company bought of the Pacific Mutual Life Insurance Company 1,250 acres of high mesa land at Corona, paying for

the property \$60,000. The Nursery Company will plant 700 acres to oranges as a result of this move. The Chase Company already has some of the choicest orange property in Southern California, but they do not hesitate to say that their new holdings will excel anything attempted by them before. The cost of pumping the water the Chases regard as a premium on the freedom from frost.

HOTEL CADILLAC HEADQUARTERS.

Arrangements have been made by which the Hotel Cadillac, in Detroit, will be the headquarters of the American Association of Nurserymen at the annual convention to be held in that city June 10-12. The committee on program, consisting of Secretary George C. Seager, Rochester; Wilson J. Peters, Troy, O., and J. Horace McFarland, Harrisburg, Pa., is preparing for the instruction and entertainment of the members during the sessions. President Ilgenfritz may be depended upon to make the meeting a profitable one for all who attend, and there should be a large percentage of the members present. Don't forget the question box. Now is the time to send in the questions to the secretary.

THE INSURANCE QUESTION.

Among the topics that might well be discussed at the Detroit convention is that pertaining to fire insurance rates for nurserymen's property. This subject has been up for discussion in the NATIONAL NURSERYMAN, and some practical thoughts have been presented. Is there room on the June convention program for this subject?

And now someone suggests that if spraying is such a good thing, and most fruit growers and nurserymen are willing to admit its efficacy, why is not capital enlisted in the direction of insuring nursery stock and orchards, by doing the work of spraying and guaranteeing results, for a premium. Itinerant power sprayers have been used in certain sections.

TO TRY NEW FRUITS.

It is stated that recently there have been shipped to the station at Santa Anna, Cal., by the Department of Agriculture at Washington, fifty varieties of plants, among which are a seedless lemon from Corfu, Greece; a new variety of seedless orange, supposed to be an improvement on the navel; a new variety of lemon, the feature of which is its great size; a white skinned orange; a blood orange from Patras; three new varieties of walnuts from Greece; a new blackberry; a seedless loquat, and a rare class of grape. A new guava, a pistachio nut, and a new variety of pomegranate are among the growths which are to be given a trial at Santa Anna.

APPLE CONSUMERS' LEAGUE.

There is a lesson for the nurseryman in the little pleasantry by which the well-known New York nurseryman, H. S. Wiley, of Cayuga, was dubbed by his fellows of the New York Fruit Growers Association, the "president of the American Apple Consumers' League," because at the Buffalo meeting of that association Mr. Wiley disposed of more baked apples than any other man at the convention. Not long ago a writer in the

Rural New Yorker suggested that a demand for apples might be caused by the simple plan, on the part of all interested, of calling for apples in preference to any other fruit at the dining tables in the hotels. The idea was adopted by some of the best known of New York fruit growers and it is believed that their action has already been the cause of an increased demand for the king of fruits. This is a good idea to push along. Let us try it at Detroit.

ANOTHER IDEA BY PROF. BAILEY.

Prof. Bailey has spoken again and as usual he has presented food for thought. At the annual meeting of the Western New York Horticultural Society, in Rochester, the noted horticulturist, in the course of a discussion of the Ben Davis and Baldwin apples, said that there is urgent need of newer and better varieties of winter apples. Culture and spraying have been well developed, but there has been little advance in the matter of varieties. Professor Bailey suggested the plan of establishing a large number of small volunteer orchards all over the state of New York where new and promising varieties may be tested—the nurserymen to furnish the trees. Work along these lines is being done in some of the states with very good results. It is probable that New York fruit growers and nurserymen could profitably co-operate in this direction.

RESPONSIBILITY OF NURSERYMEN.

Some time ago a California fruit grower bought a lot of prune trees from a local nurseryman, planted them and gave them exceptionally good care for three years, says the American Agriculturist. All the trees died and suit was brought against the nurseryman for damages. A decision and judgment was recently rendered uperior court, whichhsbee ty makes it obligatory on a nuaseryman to sell fruit trees that will grow and bear fruit. In fact they must approach a general standard. The judgment rendered was for \$1,500. That some nurserymen, as in all other business enterprises, make mistakes will be admitted, but there are thousands of fruit growers who by careless, indifferent methods do infinitely more harm to the fruit trade. There is room for improvement all around. Both nurseryman and producer could do much to enhance the value of American orchards.

GOVERNMENT SEEDS.

A committee appointed by the Wholesale Seedmen's League called upon Secretary Wilson in Washington, January 14th, and suggested that if the purchase of seed supplies for distribution be made direct from the merchants after the crops are harvested, surpluses found to be on hand at that time could be used and relieve the holders of stocks which might otherwise depress values and demoralize trade.

To this Secretary Wilson responded as follows by letter to the president of the league :

I have before me the statement of the seed trade committee signed by you and other gentlemen interested with regard to the seed purchases of this department. I am pleased with the reasonableness of your propositions and will consult with Dr. Galloway with regard to them. I think there will be no difficulty in meeting most of your requirements. There is no disposition on our part to embarrass the seed trade.

With regard to a modification of the law on the subject, it is doubtful, in my opinion, if anything can be done along that line. We obey the law to the best of our ability in such a way as to do as little harm as possible to the seed trade.

NEW YORK BOTANICAL GARDEN.

Dr. N. L. Britton, director-general of the New York Botanical Garden, reported that during the year 67,000 specimens have been received for the museums and herbarium, and about 90,000 specimens have been incorporated with the various permanent collections; showing that at least 23,000 specimens previously received have been brought into use for study. Forty-three students, including graduates of thirty-one different colleges and universities, have received the privileges of the laboratories, herbarium, and library in the course of the year, and these students have pursued investigations in practically all lines of botanical research. The library of the Garden now contains about 13,000 bound volumes, of which 1,962 were added in the last year.

VARIETIES FOR THE OZARKS.

J. B. Wild, Sarcoxie, Mo., discussed varieties of apples for the Ozark country at the annual meeting of the Missouri Horticultural Society. He said that Ben Davis has seen its days numbered for 25 years, and is still the great dividend producer, and stands first as the pioneer of commercial orcharding. It is pre-eminent as the big red apple of America, having better form and fewer off years than any variety, being hardy, an early bearer, productive, and finding its way into all the markets of the world.

"We are looking for a better variety," said Mr. Wild, "but as yet would plant it first; Gano is a close second. Payne's Keeper is newer, a good tree and good fruit. Grimes' Golden and Jonathan are of finest quality, both fine and attractive. Winesap is good where soil is suitable; York Imperial on deep soil. Ingram has been raised many years and is a good, regular and heavy bearer; gives good results. Wealthy is a good fall sort, tree hardy, prolific bearer, and of good color."

FRUIT GROWING IN NEBRASKA.

Most of the fruit trees in Nebraska are grown in the southeastern portion of the state below the Platte river. In the last decade there has been a gain of 4,699,414 in the total number of fruit trees, which increased from 1,840,704 to 6,240,111 in that time. About three-fifths of this gain represents the increase in apple trees, the number of which in 1900 was more than three times as great as that of ten years before. Otoe, Richardson and Cass counties reported the largest number of these trees.

The number of peach trees has increased more than six-fold during the decade, farming 7.9 per cent. of the total number of orchard trees in 1890 and 16.9 per cent. in 1900. The largest numbers were grown in Gage and Nemaha counties. Since 1890 cherry trees have increased in number nearly two and a half times, plum and prune trees have more than doubled, and pear and apricot trees each have gained approximately eightfold.

In Nursery Rows.

STOCK FOR ARID REGIONS—George J. Spear, of the Greely Nursery, Greeley, Colo., says: "We buy nothing but the best French stock to use for our grafting and budding. The French stock is the best on account of its freedom from insects and disease and is used by all first-class nurserymen. These we grow one year before budding. The first year after planting we water our stock on an average of once a month, but during the second year and all following seasons we let them take care of themselves so far as water is concerned, this with the mineral composition of the soil goes to make up the hardiest trees and plants in cultivation. To persons living in the semi arid regions these trees and plants are bound to become valuable. As all we ask is that you water them if the weather is dry when planting and they will take care of themselves afterward."

WILDER CURRANT—Three or four years ago, at the meeting of the Western New York Horticultural Society, at Rochester, S. D. Willard, spoke so highly of the Wilder currant as the best red and of the Imperial as the best white that I have planted a hundred bushes of these two varieties the spring following, and I do not regret it. For some reason not much has been or is being said in horticultural papers and elsewhere about the Wilder currant, yet it seems to me one of the most deserving sorts that has ever been sent out. I will not say much about the Imperial, except that it is a really good white, and, like all white sorts, more suitable for home use than for market, but I feel that I cannot say too much for the Wilder, with its long-stem clusters, and its large berries of good color and quality. My plants are very thrifty—extremely so—although this may be the result of good soil and good cultivation, and are quite productive. The fruit seems later than Fay or Cherry, and of such size that I was unable to find large and fine currants like my own in our local markets or Niagara Falls stores.—T. Greiner, La Salle, N. Y., in New York Tribune Farmer.

THE PACIFIC NORTHWEST.—In a bulletin on orchard enemies in the Pacific Northwest, C. V. Piper of the State Agricultural College, Pullman, Washington, calls attention to the fact that within the last ten years the fruit-growing industry in the states of Washington, Oregon and Idaho has developed rapidly. He says: "Up to the present time commercial fruit growing in the coast region has not been a prominent feature of its agriculture. Prune growing is as yet the one phase of fruit production that is conducted on a large scale, and this industry is confined mainly to Clark county, in Washington, and the Willamette Valley, in Oregon. Inasmuch as all stone fruits except the peach do remarkably well, and apples and pears of fine quality can be grown—in fact, fully equal to those of the inland regions—it seems strange that their production on a commercial scale has not been more fully developed. The principal explanation of the failure to do this seems to be the large loss occasioned by scab to the apple and pear, and by brown rot to the stone fruits. To a less degree the black-spot apple canker may have had a like effect. The control of these diseases, however, seem to offer no more serious problems than do the codling moth and San Jose scale in the inland valleys. Be that as it may, it is certainly desirable that a large additional amount of experimenting be carried on to determine how far these factors are inimical to success. Another factor that may have something to do in limiting commercial fruit growing is the higher initial cost of the land." Those who are especially interested in this territory should procure from the U. S. Department of Agriculture, in Washington, D. C., farmers' Bulletin 153.

A COSTLY CARNATION.

For the largest consideration ever paid in this country for a single carnation, says the Indiana State Journal, Dormer & Sons, florists of Lafayette, have sold to the Chicago Carnation Co., of which H. M. Higginbotham is president, a plant called "Fiancee," which was on exhibition at the recent flower show in Chicago, and which was awarded the silver medal of the Society of American Florists, being pronounced the finest carnation in the world. Although the sellers are under con-

tract not to divulge the price paid, the buyers reserving the right to do this when the flower is put on the market next year, it is said that the local florists are to receive \$15,000 for all plants, cuttings and roots that are produced by them from now to June 30th next.

AMERICAN FORESTRY ASSOCIATION.

The twenty-first annual meeting of the American Forestry Association was held at Washington, recently. The morning session was a business meeting at which the president of the association, Secretary Wilson, presided. At the afternoon session a number of papers were read. Among the speakers were George B. Sudworth, Overton W. Price, F. E. Olmstead and William L. Hall, of the Bureau of Forestry; Dr. B. F. Fernow, director of the New York State College of Forestry; Professor Henry Solon Graves, director of the Yale Forest Schools; Dr. C. A. Schenk, director of the Biltmore Forest School; Filbert Roth, chief of the Division of Forest Reserves in the General Land Office, and Dr. Chase Bessy, of the University of Nebraska.

AN IOWA RECOMMENDATION.

According to the Twentieth Century Farmer, published in Nebraska, Secretary Greene, of the Iowa State Society, recommends that all nurserymen, tree jobbers and agents should be licensed by the state, the jobber being also required to give bond to indemnify buyers from possible loss. He also recommends that the State Horticultural Society be changed into a state board of horticulture, with whom all complaints should be filed. This board would have authority to arbitrate all difficulties between buyers and sellers and appeal to the courts, when necessary. An inspector should be employed to visit nurseries and packing grounds and inspect stock and methods.

Recent Publications.

Among the progressive catalogues received this spring are those of the William H. Moon Co., Morrisville, Pa., and Luke Brothers Company, Montreal and Chicago.

The Bartram house of Philadelphia, a unique memorial of pre-Revolutionary days, is described and illustrated in a paper in the March *De-lineator*. John Bartram, the builder, was a farmer who turned his attention to botany, and eventually become the most famous American botanist of his day.

"Home Floriculture" is the subject of a book by Eben E. Rexford, published by the Orange Judd Co., New York. It is intended to assist the amateur who desires to become better acquainted with "our friends, the flowers." There are 51 chapters replete with valuable information and embellished with 72 illustrations.

"American Animals," by Witmer Stone and William Everett Cram, is one of the latest and most attractive of nature studies. The aim has been to produce a book sufficiently free from technicalities to appeal to the general reader and at the same time to include such scientific information relative to the North American mammals as would be desired by one beginning their study. There are six plates in color and 130 pictures from life. The volume is replete with instruction and entertainment. There is a key to the genera of North American mammals and a bibliography of the principal works on this subject. All the matter in the book is conveniently indexed. 4to. Pp. 318. Cloth. \$3. New York: DOUBLEDAY, PAGE & Co.

Long and Short.

The Lord & Burnham Co., Irvington, N. Y., and New York City, have contracted for the erection of new greenhouses for the following firms: Lewis C. Pilat, Ossining, N. Y.; Mulroy Brothers, Rhinebeck, N. Y.; Chas. Buening and Hora Brothers, Allentown, Pa.; W. L. Lewis, Marlboro, Mass.; John Burton, Philadelphia, Pa.; the Philadelphia Carnation Company, Philadelphia, Pa.; A. Fahrenwold, Roslyn, Pa.; C. Backer, Boston, Mass.; George H. Arnold, Bainbridge, Mass.; Edwin Gould, Jekyll Island, Ga.

Salzer's Seeds are grown in more gardens, and planted on more farms in America, than any other seeds sold, and the reason is found, perhaps, in the truth of the firm's motto—"Salzer's Seeds Never Fail." Owing and operating over 5,000 acres for the production of choice seeds, the most complete facilities are here united with long and varied experience; and the result is a product in seeds, that has never before been equaled. Such, among others, are the methods which have brought 1,000,000 customers to the John A. Salzer Seed Co., La Crosse, Wis.

Bobbink & Atkins, Rutherford, N. J., invite nurserymen when in New York, to visit their nurseries, Rutherford being the first station from the city on the Erie railroad.

The Reed Pivot Axle Cultivator, made by the Reed Manufacturing Co., Kalamazoo, Mich., is particularly adapted to the nurseryman's use. See their announcement.

An offer on 75,000 peach seedling trees and other stock is asked by Charles Ernst's nurseries, Moscow, Ohio.

Peirson Brothers, Waterloo, N. Y., have standard apples, peaches, box elder, American elm, silver maple, Norway spruce, etc.

A surplus stock that must be moved in March is announced in another column by C. C. Davis, nurseries, Lee county, Va.

Apple, cherry, pear and forest tree seedlings in large amounts are offered by E. S. Welch, Shenandoah, Ia.

The H. S. Taylor Co., Rochester, N. Y., have a complete line of nursery stock for spring trade.

Fruit stocks of all kinds are offered by Thomas Meehan & Sons, Dreshertown, Montgomery Co., Pa.

Wood labels of every description for nurserymen and florists, are made by the Dayton Fruit Tree Label Co., Dayton, O.

Lord & Burnham Co., Irvington-on-the-Hudson, N. Y., are headquarters for greenhouse building material of all kinds, "Burnham" boilers heat.

D. S. Lake, proprietor of the Shenandoah Nurseries, Shenandoah, Ia., carry a complete line of nursery stock. Apple grafts, apple seedlings, forest tree seedlings and Osage orange plants are specialties.

Nurseyman's knives, hand-forged, are made by Maher & Grosch Co., Toledo, O.

The Prudential Orchard Co., Shermansville, Pa., want gooseberry stools and blackberry root cuttings. General nursery stock offered.

Opportunities are offered in another column for the purchase of one-half interest in a well established nursery, for a purchase of a nursery in the West, and an experienced foreman.

Eugene Covey, Penfield, N. Y., has a few thousand peach trees to sell.

Grape cuttings can be had of Lewis Roesch, Fredonia, N. Y.

C. B. Gray, Albion, N. Y., has a few peach trees left.

The Alpha Nursery Co., Alpha, Ill., offers a general line of nursery stock.

For rhododendrons apply to the specialist, Harlan P. Kelsey, Tremont building, Boston, Mass.

High grade ornamentals are a specialty with Hoopes Bros. & Thomas, West Chester, Pa.

The best spraying pumps are made by the Deming Co., Salem, O.

JOHN S. KERR, SHERMAN, TEX., Feb. 9, 1903.—"I find the NATIONAL NURSERYMAN valuable for association among leading men and thought of the nursery fraternity. I enclose \$1.00 for renewal."

FIRST TO PLANT KIEFFER PEAR.

William Parry, Riverton, N. J., was the first to plant the Kieffer pear, says J. Meehan in the Practical Farmer. He says: "The pear was raised and exhibited by Peter Kieffer, of Roxborough, Philadelphia, at the Centennial Exposition, at Philadelphia, in 1876. I believe that I am right in saying that the names of the judges of the fruit display of the agricultural department were Josiah Hoopes, Thomas Meehan and William Parry. The committee gave the fruit a first-class recommendation. Subsequently William Parry secured the rights to the grafts of the original tree from Peter Kieffer, and he it was who first advertised and sold the trees. Whether or not he led off in the planting of an orchard, I cannot say. J. S. Collins may have done that, but I believe the first to advertise it was Mr. Parry.

PENNSYLVANIA HORTICULTURISTS

At the recent meeting of the Pennsylvania Horticultural Society Howard A. Chase, of Philadelphia, was unanimously re-elected president, as were all the other officers.

Calvin Cooper, Bird-in-Hand, read a paper on "Is the Custom of Many Nursery Men in Cutting Buds and Scions Continually from Nursery Rows to be Commended?" He said fifteen years' experience had convinced him that the practice was bad. The way to get good stock was to take the buds and grafts from vigorous bearing trees and then you know what you are getting.

This evoked a general discussion in which the universal sentiment was against the practice for the reasons given by Mr. Cooper.

"Beautifying Waste Places" was the subject of S. Mendelson Meehan's paper. "By waste places," he said, "I mean the places around the farm houses. All life should not be prosaic, but the beautiful should have a part. There should be a lawn with shrubbery and trees that would not only be a delight to the eyes of the family, but to the passers-by and the neighbors. Then there should be a flower garden which will be full of opportunities. Such beautification will make homes brighter and better, and the boys and girls will not be so anxious to leave the farm. There is nothing of more permanent interest than a flower garden, after one gets acquainted with its possibilities."

A MODEL HORTICULTURAL SOCIETY.

The old Western New York Horticultural Society held its annual meeting at Rochester in January as usual, and as usual it was business from the time the presiding officer's gavel called the meeting to order until the adjournment, says Farm and Fireside. No time is ever wasted during its meetings. Even the election of officers consumes but a very few minutes, and requires only the adoption of a committee's report. W. C. Barry has sometimes been accused of holding a dictatorship for life rather than an elective chairmanship, but the society is evidently flourishing under his masterful guidance, and with the help of a most efficient secretary, Mr. Hall, the Western New York Horticultural Society, in short, has become a model as a business society among similar bodies which are organized chiefly for educational aims and objects. The attendance

regularly overruns the five hundred mark by a good deal, and any member who comes an hour later than the time set for the opening of the meeting invariably finds that he has already missed some important talk and discussion. No time is consumed with lengthy devotional exercises, with addresses of welcome and responses. There is no display of oratory, of wit, or humor, which is intended to amuse the crowd, rather than for instruction and elevation, and no music. There is nothing except that which applies directly to the furtherance of the serious aims and objects of the society. In these respect it differs from many meetings of farmers and fruit-growers, and its example could be followed with benefit.

NEW MANAGER POMONA NURSERIES.

For twelve years previous to the death of William Parry, in 1898, T. E. Steele of Palmyra, N. Y., was connected with the firm of Parry's Pomona Nurseries, having charge of the office and order department, and looking after the minor details of the business. For the past four years he has been connected with the firm of D. Landreth & Sons, in charge of the tree and plant department of that establishment. On February 1st he assumed control of Parry's Pomona Nurseries, and will be prepared to furnish stock of fruit and ornamental trees this spring. He has devoted more than twenty years to the nursery business.

PROFESSOR BAILEY HIS CHOICE.

James E. Rice, Westchester County, N. Y., writes to the Rural New Yorker :

The selection of Prof. Bailey to head the Agricultural College would give universal satisfaction to the agricultural students of Cornell and to people generally who understand the real needs of the position for a progressive man, one who is a natural leader who has high ideals and the ability to execute them. His selection would extend Cornell's fame throughout the world more perhaps than any other choice that could be made, and would guarantee to Cornell's many well wishers, and to farmers and legislators in New York state in particular, that the work of agricultural education would go forward with a push and a scope that would be a credit to the university and to the Empire state.

James McHutchison of McHutchison & Co., 218 Fulton street, was in Rochester last month on a Western trip.

C. S. Harrison is president, E. F. Stephens is treasurer and Peter Younger is a director of the Nebraska Parks and Forestry Association.

Howard A. Chase, Philadelphia, is president of the Pennsylvania Horticultural Association.

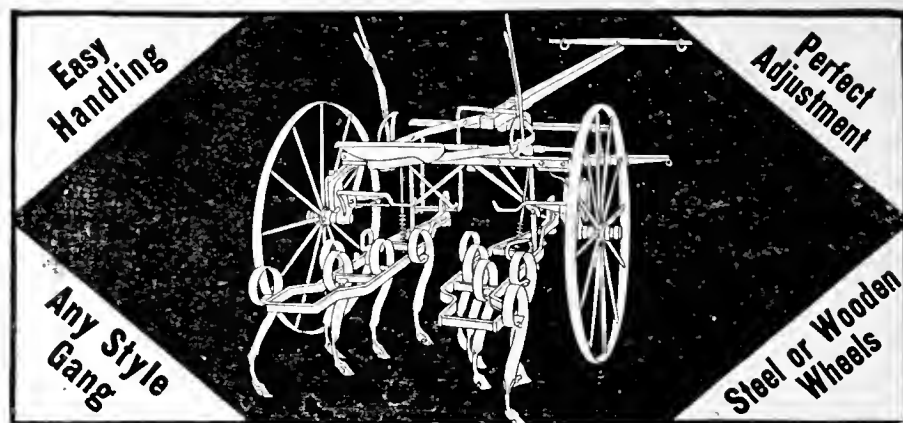
The Pioneer Nurseries Co. of Salt Lake City, Utah, met with a disastrous fire during the week of February 8th, destroying the greater part of their office and contents. Nurserymen will confer a favor by sending them at once copies of catalogues and price lists to restore their files.

The H. S. Taylor Company, Rochester, N. Y., have recently purchased The Brighton Central Nurseries which comprise about 100 acres of general nursery stock, which will be largely increased this season. Officers of the company are, H. S. Taylor, F. V. Taylor, J. F. Norris.

FOR SALE Old Established Nursery in fine section of the west Gilt edge trade. Fine Churches, Schools, etc., splendid location for Asthmatic or Consumptive.

Address Owner care National Nurseryman.

When writing to Advertisers mention The National Nurseryman.



IN THE NURSERY ROW.

Special features make the implement shown above particularly adapted to the nurseryman's use. The spring teeth can be used for deep or shallow cultivation, thoroughly pulverizing the soil and preserving the moisture; they can be set at any desired angle, giving them the necessary "suction" to force them into the hardest soil.

THE REED PIVOT AXLE CULTIVATOR

is under instant control of the foot. Slight pressure throws either wheel and its gang to right or left. If a rigid axle cultivator is desired you have it by simply removing a bolt and gangs will swing independently. A model for ease of handling and thorough cultivation under all conditions.

Agents Wanted in all New Territory.

Write for Catalogue and Terms.

REED MANUFACTURING CO., KALAMAZOO, MICHIGAN.

Salzer's Rape gives Rich, green food at 25c a ton

BUY NORTHERN GROWN SEEDS

FARM SEEDS

SALZER'S SEEDS NEVER FAIL!

1,000,000 Customers

Proudest record of any seedsmen on earth, and yet we are reaching out for more. We desire, by July 1st, 300,000 more and hence this unprecedented offer.

\$10.00 for 10c.

We will mail upon receipt of 10c. in stamps our great catalogue, worth \$100.00 to any wide awake farmer or gardener together with many farm seed samples, Teosinte, Beardless Barley, Bromus, Rape, etc., etc., positively worth \$10.00 to get a start with, upon receipt of but 10c. in stamps.

Please send this adv. with 10c. to Salzer.

SPCLTZ—What is it! Catalog tells.

JOHN A. SALZER SEED CO. LACROSSE WIS.

catalog alone, 5c. Send at once.

**APPLE
PEACH**

LEADING SORTS, BUT HEAVIEST IN BALDWIN.

**ORNAMENTAL
SHRUBS**

SLIM, STRAIGHT, FIBROUS ROOTED. NO CULLS IN OUR LIGHT GRADES.

SILVER & WEIR'S MAPLE. FINE STOCK.

ALTHEAS, DEUTZIAS, SPIREA-A, WATERER, REEVES, BILL ARDI, TOMENTOSA.

EXCHORDIA, HALEZIA, HYDRANGEA, SNOWBERRY, CORAL BERRY, WIGELIA VARIEGATED, ETC.

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AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay St.

WHOLESALE NURSERIES

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OF APPLE, PEACH, NORWAY MAPLE, IRISH JUNIPER, ABUNDANCE AND HALE PLUM.

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I still have a few thousand
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FOUR DAILY VESTIBULED TRAINS

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THREE DAILY VESTIBULED TRAINS

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PULLMAN SLEEPING CARS.

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Over 400 Acres in Nursery. 60,000 Feet of Glass.

SPECIAL LOW PRICES

Are offered to clean up some blocks of

CHERRIES, 4 1/2 ft., 3 1/2 ft., and 2 1/2 ft. NECTARINES,
4 1/2 ft. GRAPES, heavy, 2 yrs. ENGLISH WAL-
NUTS, 18 1/2 in. CITRUS TRIFOLIATA. (Best de-
fensive hedge plant).

In addition to the above we have a fine lot of

SHRUBS, CONIFERS, DECIDUOUS SHRUBS AND
TREES. CLEMATIS APIFOLIA.

ORANGES, LEMONS, LIMES, POMELOS. KUM
KWATS (Grafted upon Citrus Trifoliata), nice bushy plants,
1-4 ft. All fruiting size and pot grown.

CANNAS—dry roots, best sorts. CLIMBING CLOTH-
ILDE-SOUPERT-ROSE—field grown. RUBBERS, 10-
12 in. (From top cuttings.)

250,000 PALMS

KENTIAS, LATANIAS, PHOENIX, PANDANUS and
CHAMAROPS. All in fine condition.

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P. J. Berckmans Co.

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FRUITLAND NURSERIES,

Established 1856.

AUGUSTA, Ga.

THE Geneva Nursery

Established in 1846.

Headquarters for : :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of : :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PÆONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

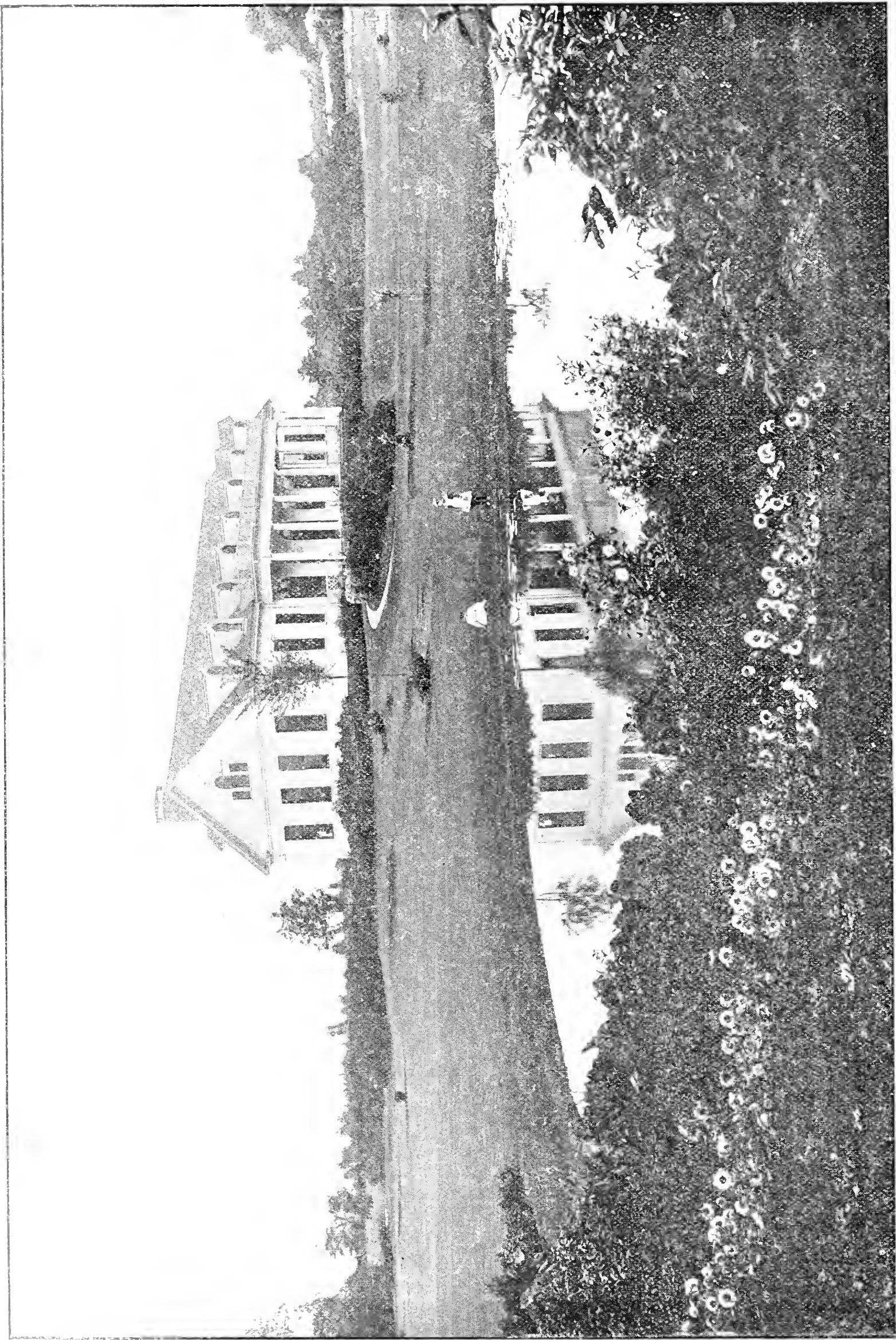
full Assortment in : :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES. RASPBERRIES.

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NEW YORK.

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OFFICE BUILDING ON THE NEW GROUNDS OF THE BROWN BROTHERS' NURSERY COMPANY, BRIGHTON, N. Y.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"No country has so wide a range of excellent fruits as America."—C. W. GARFIELD, Grand Rapids.

Vol. XI.

ROCHESTER, N. Y., APRIL, 1903.

No. 4.

ALABAMA'S NEW LAW.

In Line with Georgia in Requirements Regarding Shipment of Nursery Stock Within the State or Into the State from Other States—Text of Sections of the Law with Which Nurserymen Should be Acquainted.

The State of Alabama has a new law governing the growth and sale of nursery stock. A Board of Horticulture is constituted to have full power to enact such rules and regulations governing the examination, certification, sale, transportation and introduction of trees, shrubs, cuttings, buds, vines, bulbs and roots, that they may deem necessary to prevent the further introduction, increase and dissemination of insect pests and plant diseases. The professor of horticulture of the Alabama Polytechnic Institute, R. S. Mackintosh, is the secretary of the board and the state horticulturist. Sections of the new law follow:

Sec. 5. Upon the findings of the State Horticulturist or his deputy in any case of infected trees or plants, the treatment prescribed by him shall be executed at once (unless an appeal is taken), under his supervision, the cost of material and labor shall be borne by the owner; provided, however, that in case the trees or plants shall be condemned they shall be destroyed and the expense borne by the owner. No compensation shall be allowed for any plants that shall be destroyed.

Sec. 7. It shall be unlawful to offer for sale, sell, give away or transport perennial plants, trees, shrubs, vines or other plants, tubers, roots, cuttings, bulbs, known to be infested with dangerously injurious insects or plant diseases. Any person or persons violating this section shall, upon conviction, be fined not less than ten nor more than one hundred dollars for each separate offense.

Sec. 11. It shall be unlawful for any person, firm or corporation to sell, give away, or ship within the State of Alabama any trees or shrubs, or any other stock plants commonly known as nursery stock, without having a certificate of guarantee of the State Horticulturist of Alabama. A copy of such certificate of guarantee must accompany each box or package sold, given away or shipped. Such certificate must be dated within twelve months. If upon examination such stock is found to conform to the requirements of the said Board of Horticulture the State Horticulturist must furnish a certificate to that effect. Any person or persons, selling, giving away or shipping nursery stock without the certificate of the State Horticulturist shall be fined not less than fifty nor more than one hundred dollars.

Sec. 12. Each and every person, firm or corporation, residing and doing business outside of the State of Alabama dealing in or handling trees, shrubs or other plants commonly known as nursery stock, shall file a copy of his or its certificate of his or its inspection furnished by the State Horticulturist, nursery inspector or other duly authorized official of his or its State or County with the Secretary of the Board of Horticulture. Upon the filing of this certificate as above prescribed, and upon request of the person, firm or corporation, a certificate will be issued to the same, and official tags bearing copy of such certificate and seal of the Board will be furnished the same at cost, provided, however, that the aforesaid certificate of inspection shall be adjudged satisfactory by the board. Each box, bundle or package of nursery

stock shipped into Alabama by any person, firm or corporation shall bear one of these tags, and shipments of stock not thus tagged shall be liable to confiscation by the Board of Horticulture through its agents or employees.

Sec. 13. No transportation company or common carrier shall deliver any box, bundle or package of trees, shrubs or plants commonly known as nursery stock to any consignee residing within the State of Alabama when said box, bundle or package does not bear the official tag or certificate of guarantee issued by the State Horticulturist without previously notifying the State Horticulturist of the particulars of the shipment as they may be required by the board, nor without duly warning the consignee of his risk in accepting said shipment.

Sec. 14. Any person, firm or corporation receiving from any other firm or corporation any box, bundle or package of trees, shrubs or plants, commonly known as nursery stock, which is not accompanied by a certificate of guarantee, or official tag issued by the State Horticulturist to cover said loss, shall be deemed guilty of a misdemeanor, and upon conviction shall be fined not less than ten nor more than one hundred dollars.

CALIFORNIA ACTIVITY.

A Gilroy, Santa Clara, correspondent of the California Fruit Grower, states that not for many years has there been such activity in that section in the horticultural and viticultural industries. Crop conditions were so satisfactory last year and the outlook for the future is so promising that the orchardists are increasing their acreage and many new vineyards will be planted.

This is shown by the extraordinarily large sales of nursery stock which have been made during the past two months by the local agent of a certain large nursery company. The orders placed with him far exceed the entire business of the agency for the previous year, and the sales would have been considerably larger were it possible to fill orders for prunes the stocks of which are nearly exhausted in the nurseries throughout the state, and wholly so in some of the nurseries. There are not many orders for apricot trees.

The remunerative prices for grapes obtained for the past two years, and the prospect for a continuance of a good market, have influenced a number to go into that industry extensively.

CHANGE AT PAINESVILLE.

The partnership heretofore existing between Henry Kohankie and C. W. Metcalf, known as Euclid Avenue Nursery Co., Cleveland and Painesville, Ohio, has been dissolved by mutual consent. Henry Kohankie holds the 10 acres of shade, ornamental trees, shrubs, vines, roses etc., and assumes all obligations at Painesville. He will make extensive improvements and will greatly increase his stock in that line. The concern will be known as Euclid Avenue Nursery Co., Painesville, O. Henry Kohankie, superintendent and general manager.

A NURSERY EXHIBIT.

To be a Feature of World's Fair at St. Louis—Announcement by Frederick W. Taylor—Space for Fruit Exhibit—Suggestions for Exhibitors—Circular on Cold Storage of Fruits to be Issued by Department of Horticulture.

Frederick W. Taylor, chief of the Department of Horticulture at the St. Louis World's Fair, has issued the following statement:

The fruit growers and horticultural societies, both state and local, are taking great interest in the plans that are being made for the fruit exhibit in the horticulture building. The fact that there is to be practically twice as much space devoted to this exhibit at St. Louis as there has been at any former exposition is encouraging news to them.

Many inquiries from individual fruit growers and local horticultural societies concerning space for a fruit exhibit have been received by the Department of Horticulture and it seems that a general statement of the method of securing space is of interest.

The space will be secured by an officer representing the state commission of each state and all exhibits of this character will be under the management of the state commission unless there should be a state that does not have a commission, in which case some other arrangements will be made.

Fruit growers in making an exhibit of fruits are assured that they will not lose their identity by an arrangement of this kind, for it will be required that all exhibits be plainly marked, showing the name of the grower and the locality where the fruit was produced. This will be of great value from an educational standpoint as it will give all who are interested in studying fruits, definite information as to the locality where the fruit was produced.

It is important that fruit growers everywhere begin at once to prepare to grow fruit for exhibit purposes. Sufficient plant food should be supplied to enable the trees to bear perfect specimens and this should be followed throughout the season with the most thorough cultivation.

Thorough cultivation will hold the moisture in the soil which will be available for the use of the trees and plants in development of perfect specimens of fruits.

The thinning of fruit is an important consideration where it is desired to grow perfect specimens.

States that are planning to exhibit must have a sufficient quantity of fruit in cold storage so that the space allotted to them will be entirely covered at the time of the opening of the exposition, and in order that they may have a sufficient quantity in reserve in storage to keep the space covered until the 1904 crop of fruit is available.

A circular on cold storage of fruits will be sent out from the Department of Horticulture in good season giving the latest information obtainable concerning that subject.

Nursery Exhibit.

It is intended that a collective exhibit of Nursery stock from all sections of the world will be made in the Department of Horticulture of the Louisiana Purchase Exposition. This will afford a splendid opportunity for Nurserymen, Botanists

and Fruit Growers to study the individual varieties and types represented. From an educational standpoint, the value of such an exhibit will be appreciated by all interested in Horticulture.

It is also expected to have a collection of the newer varieties of grapes in bearing, especially those that have been produced by crossing. These will be planted the present spring so that they will be in bearing in 1904.

A collection of varieties of strawberries will be planted the present spring. These will be confined in the new varieties. A part of these will be new varieties that have been produced by a careful system of breeding for the purpose of obtaining varieties possessing certain characteristics.

In the Nursery exhibit, a collection of nursery trees affected with crown gall and other diseases as well as trees infected with woolly aphids will be made.

ARBOR DAY DATES.

Following are the official dates of Arbor Day in the States:

Virginia	April 2	Illinois	April 24
Maryland	April 3	Massachusetts	April 25
Pennsylvania	April 3 and 17	Wisconsin	May 1
Missouri	April 10	Connecticut	May 1
Oregon	April 10	New Hampshire	May 2
Utah	April 15	New York	May 8
Ohio	April 17	Rhode Island	May 8
Nebraska	April 22	Montana	May 12
Iowa	April 24	Arkansas	November 10
Michigan	April 24		

Among Growers and Dealers.

The H. S. Taylor Co., Rochester, N. Y., which recently purchased the Brighton Central Nurseries of 100 acres of general nursery stock, has been capitalized at \$10,000 with the following directors: Hinman S. Taylor, Frederick V. Taylor and J. Frank Norris.

The Charlton Nursery Co. is to move its offices from Rochester to Brighton.

C. T. Zimmerman, Cameron, Mo., has purchased the Cameron Nursery, formerly owned by John Zimmerman, and is now the sole proprietor.

The Massachusetts Fruit Growers Association, has elected A. G. Sharp, of Richmond, president, and F. A. Smith, of Hopedale, secretary.

The Ozark Apple Growers Association, at a meeting in Springfield, Mo., arranged for co-operative marketing of fruit. The company is incorporated.

The Alabama Nursery Co., Huntsville, Ala., has purchased the John T. Paul farm of 132 acres at Mercury for nursery purposes.

The Strunk Shade Tree Co., has been incorporated in St. Louis; capital \$25,000.

Gilbert Nabonnard, French rosarian, who sent out Papa Gontier and other roses, died recently at Mandelieu, Alpes Maritimes, aged 75 years.

Stark Brothers, Louisiana, Mo., have a paid-up capital of \$1,000,000. Last July their property was invoiced at \$1,157,284.30.

D. S. Lake, Shenandoah, Ia., employs 200 persons and the grafting capacity of his nursery is 65,000 per day.

The Central Michigan Nursery Co., Kalamazoo, Mich., is to open a retail store for the sale of cut flowers and plants.

A. Duham & Co., is the name of a new nursery firm at Napa, Cal.

W. Herbert Samson, Corning, Cal., has 100,000 Lob Ingir Smyrna fig trees. He offers to furnish the fig wasp with every tree sold.

T. J. True, Forestville, Cal., will establish a nursery at Sebastopol, Cal.

BEAUTIFYING WASTE PLACES.

*Landscape Gardener Suggests Simple Method of Improvement—
Good Expanse of Lawn—Flower Garden in Enclosure
Into Which One May Pass and Seem to be in a Dif-
ferent Atmosphere—Do Not Scatter Roses—
Value of a Few Really Rare Plants.*

At the annual meeting of the Pennsylvania State Horticultural Association at Harrisburg, S. Mendelson Meehan, editor of *Floral Life* and vice-president of Thomas Meehan & Sons, Inc., Germantown, Pa., read a paper on "Beautification of Waste Places." He said in part:

"In comparison with the owner of city property, what a much better opportunity has the countryman and fruit grower, with an abundance of low-priced land, to have a beautiful garden home at a little expense, and accompanied with greater personal interest.

"But few country homes exist where from one to five acres could not be set aside for flower gardens. 'It would not pay,' I hear someone say. Perhaps the balance in dollars and cents would be a little less, but is the pleasure and comfort to count for nothing? If the financial results are to be considered above everything else, and the loss of that much ground is serious, then the owner must be working the remainder of his property on very close margins, and his methods need investigating.

"A good expanse of lawn may be considered one of the chief aims, because when that is set apart, it offers many opportunities for development in detail and striking effects. Above all, set out with the determination that it is to be a good lawn of grass. To be half-hearted in home-making is to create waste places, and those we have no use for.

"Decide to have, if possible, a flower garden, not simply flower beds and borders around the grounds, but something of an enclosure into which one may pass and feel that he is in a different atmosphere; where flowers are on every side inviting admiration and interest. I know of no phrase of gardening that is more delightful, invigorating and care-destroying than that which relates to hardy flowers.

"A carefully selected assortment gives a profusion of flowers all the year, from the very earliest spring days, when some will open their adventurous blossoms almost from out the snow, to the time when some will defy the lighter frosts of autumn.

"A rose garden, which may be made a section of a general flower garden, is much more pleasing than when the roses are

simply scattered here and there. They are not fitted for promiscuous planting, and always respond better to definite treatment.

"If a fine lawn offers opportunities for detailed development, equally so does the flower garden. There may be bowers, turf walks and rustic seat trellises, vine-covered archways, and what not. Utility need not be dismissed entirely, for some of the handsomest flower gardens are merely generous borders to vegetable patches. Or where the owner is concerned in marketing, cut flowers offer opportunities for quite a neat recompense for labor and expenditures.

"Would not this idea also add to the various proffered solutions of the farm questions. How shall we keep the boys on the farm?

"Plant trees and shrubs that have permanent value and are not too ordinary. Avoid the cheap, quick-growing trees which

are invariably less satisfactory in the end and are short-lived. I will only name the oaks as being especially worthy trees, and ones that will never bring regret. A few really rare plants will increase the interest in your place wonderfully. Such beautiful things as the Yellow Wood, Gingko, Sophora and Japanese Varnish Tree are not difficult to obtain, yet they are not common."

GEORGE ACHELIS.



GEO. ACHELIS.

We present herewith a likeness of a prominent Pennsylvania nurseryman. George Achelis was born in Brooklyn, N. Y., in 1842, and received his education partly in this country and partly in Germany. On May 1, 1866, he became half owner of the Morris Nurseries under the firm of Otto & Achelis. In 1875 he bought the share of his partner. The Morris Nurseries were founded by Paschall Morris some time before 1850, and when Mr. Morris sold the nurseries to J. L. Darlington & Co., the successors, at his request the new firm retained his name by calling the nurseries "Morris Nurseries," under which name it has been conducted ever since. Mr. Achelis' name heads the list of members of the American Association of Nurserymen.

TWO NEW RAMBLER ROSES.

Ellwanger & Barry, Rochester, N. Y., are introducing two new hardy rambler roses this Spring. One, which is named *Leuchstern*, bears single flowers in large clusters, of a bright rose color with a white eye; foliage and habit similar to *Crimson Rambler*. The other named *Rubin*, is of a deep red color, and having flowers somewhat larger than *Crimson Rambler*.

The National Nurseryman.

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OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Payment in advance required for foreign advertisements. Drafts on New York or postal orders, instead of checks, are requested.

Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, Charles A. Ilgenfritz, Monroe, Mich.; vice-president, D. S. Lake, Shenandoah, Ia.; secretary, George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

Executive Committee—William Pitkin, Rochester, N. Y.; N. W. Hale, Knoxville, Tenn.; Peter Youngers, Geneva, Neb.

Committee on Transportation—President Ilgenfritz, ex-officio; A. L. Brooke, N. Topeka, Kan.; Henry Chase, Huntsville, Ala.; E. Albertson, Bridgeport, Ind.; Howard Davis, Baltimore, Md.

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Committee on Legislation—C. L. Watrous, Des Moines, Ia.; Silas Wilson, Atlantic, Ia.; Charles J. Brown, Rochester, N. Y.; George A. Sweet, Dansville, N. Y.; Robert C. Berckmans, Augusta, Ga.

Committee on Programme—George C. Seager, Rochester, N. Y.; Wilson J. Peters, Troy, Ohio; J. Horace McFarland, Harrisburg, Pa.

Committee on Publicity—C. M. Stark, Louisiana, Mo.; Ralph T. Olcott, Rochester, N. Y.; F. H. Stannard, Ottawa, Kan.

Annual convention for 1903—At Detroit, Mich., June 10-12.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., APRIL, 1903.

CANNOT AFFORD TO MISS IT.

The indications are that under the personal guidance of President Ilgenfritz the convention of the American Association of Nurserymen, to be held in Detroit in June, will be the most profitable ever held by the Association. The members cannot afford to miss it, and those nurserymen who are not yet enrolled should make it a point to be numbered as members of this active and influential organization from the date of the Detroit convention.

A committee on program for the meeting of June 10th to

12th is completing arrangements; we are confident that the convention hall at the Cadillac Hotel will be full at all the sessions. Mr. McFarland, of Harrisburg; Mr. Peters, of Troy, and Secretary Seager of Rochester are working on the program which will provide short, bright papers from capable gentlemen, followed by a discussion. It is the intention to have a program full of subjects of the deepest interest to active nurserymen. This is what the NATIONAL NURSERYMAN has argued in favor of repeatedly. Our contention has been that a basis for important convention work should be prepared, so that those who desire can assist in making the business feature of the meeting prominent, while those who wish to enjoy more particularly the social side may do so.

President Ilgenfritz believes, as did President Berkman, that there is enough of discussion and business to occupy the attention of the Association during a three days' convention.

BUILDING COVERS TWENTY ACRES.

The contract for the completion of the Agriculture building at the St. Louis World's Fair has been let for \$529,940. This building is fifteen per cent larger than any other building at the exposition and is the largest structure erected for the reception of a single department. It is 500x1600 feet, thus containing a floor space of almost 20 acres. This building and that to be built for horticulture will probably be the only ones in the exposition bearing color on the outer walls. The Agriculture building will have a green tint with points of brighter color. Garlands, wreaths and festoons of fruits and flowers are to figure in the color scheme. The architectural members, such as the cornices and the piers between the mouldings, are to be left white.

PROFESSOR BAILEY'S NEW FIELD.

Professor Liberty Hyde Bailey has been appointed dean of the College of Agriculture at Cornell University. Perhaps no professional man stands in higher esteem among the nurserymen of the country than does Prof. Bailey. Commenting upon the new field which he has entered, the American Agriculturist says:

His splendid work in horticultural literature stands as a monument to him. Now comes a new line which cuts squarely across the field in which he stands paramount. No doubt he has felt that there may come a time in a man's life when he cannot do what he wants to do and still be a man. Not as a matter of choice, but as one of necessity, he has been obliged to lay down the special lines of work for which he is so well adapted, leaving the past behind and stepping into a broader and newer field of usefulness. He goes into the new position with all the zeal and energy that he can command.

There are possibilities before the college of agriculture and greater responsibilities connected with it than ever before. We have no doubt he will be equal to every emergency that confronts him and that the institution will continue to advance under his immediate supervision. In a recent letter regarding the situation he says: "I will do my best. I shall give up all work that will in the least interfere with my usefulness and efficiency, and will give my red blood to the new work with hope and love."

He was born on a farm in Michigan. His father is one of the best known fruit growers in that state. Although now nearly 83 years, he is planning to plant a peach orchard the coming spring. He is thoroughly in love with nature and in this respect his distinguished son has inherited much. Prof. Bailey attended the Michigan agricultural college and was graduated in 1882. For two years thereafter he was private assistant to Dr. Asa Gray, the world-renowned botanist

of Harvard university. While there he did considerable editorial work along horticultural lines.

In 1885 he was called to his alma mater, Michigan agricultural college, and accepted the professorship of horticulture and landscape gardening, which position he held until 1888. He was called to Cornell university to accept the chair of general and experimental horticulture in 1888. Part of the year he spent abroad and he really took up the active work in New York in 1889. His subsequent history is well known. He writes, "From that time until this I have tried to be busy." No one will question the fact that his teachings and writings have had a wider, beneficial effect upon experimental horticulture and horticultural literature in this country than that of any other man.

PACKING TREES FOR SHIPMENT.

We suggest a as topic for discussion at the annual convention in Detroit: "Can this Association take any steps toward the improvement of methods of packing fruit trees for shipment?"

A well-known nursery firm in the East recently called our attention to trouble it has experienced. A member of this firm said:

From several nurseryman last spring and also during the fall we received fruit trees and shade trees per carload. One shipment which we received in the spring consisted of large trees and same were in the first place packed so that when they arrived they were all broken, being shriveled and the roots dried up, the train men having walked over same; consequently, you realize the condition.

We wrote to the party and he informed us the car was properly packed, although there had been no packing done whatever; they were simply thrown into the car.

This fall we received a shipment of fruit trees which were put into the cars in a similar way and arrived in the same condition. Unfortunately the car was on the road about fourteen days and the trees arrived here in a shriveled and frozen condition. We wrote the party and he informed us same would recover if properly heeled in. This we did and now we find that all the roots are black. This, of course, is due to the fact that the roots were exposed to the frost.

We have spoken with several nurserymen in the East as to how they pack in general; and it seems to us it is high time that something was done to change this method of packing.

We would like to hear from other nurserymen on this subject, and we shall be glad to publish in the NATIONAL NURSERYMAN expressions thereon.

The need of a committee on publication to advance the interests of the American Association of Nurserymen is evidenced by the fact that all winter long the Country Gentleman, in its list of meetings of horticultural bodies, has announced that the annual convention of the American Association will be held in Buffalo in June.

Through united effort on the part of the florists, the express companies have rescinded their order of December 10, 1902, increasing the tariff on cut flowers fifty per cent. This result was accomplished through the influence of the Society of American Florists. It should be an example to encourage the members of the American Association of Nurserymen to work for their mutual interests when occasion requires a united front. The rights of the nursery industry as a commercial factor should be maintained justly, but firmly.

A PERMANENT SUBSCRIPTION.

Central Michigan Nursery: "We hand you herewith draft for \$1.00 for renewal, and assure you that we intend to make it a permanent subscription as long as we remain in the nursery business. It is too good a paper for us to get along without."

AMERICAN POMOLOGICAL SOCIETY.

President C. L. Watrous and Secretary William A. Taylor of the American Pomological Society, have issued the following under date of March 5, 1903:

At the Buffalo meeting of the American Pomological Society (Sept. 12-13, 1901), there was a strong sentiment manifested in favor of holding the next biennial session at St. Louis in 1903, in connection with the Louisiana Purchase Exposition. As the Exposition date has been postponed to 1904, our Executive Committee have deemed it advisable to hold the regular 1903 meeting elsewhere, leaving the way clear for a session at St. Louis in 1904, in case the Society shall so decide.

The invitation of the Massachusetts Horticultural Society, courteously extended through Vice-President Strong, has therefore been accepted by the Executive Committee, and the Twenty-eighth Biennial Session will accordingly be held in Horticultural Hall, Boston, September 10 to 12, 1903. Transportation and hotel rates and other details of the meeting will be announced in due time.

As no meeting of the Society has been held in the New England States since 1887, our present membership will find many lines of horticultural development there that merit their attention and investigation. The session will probably be of three days' duration, as experience at Philadelphia and Buffalo has demonstrated that the numerous topics treated at our meetings can not be adequately presented or discussed in less time. The favorable date of the meeting and the facilities for installing exhibits in the new hall of the Massachusetts Horticultural Society, which is without doubt the finest building of its kind in America, should insure an exceptionally large and comprehensive fruit exhibit.

A plan for ad interim examination of fruits, that can not be shown in their fresh state in September, is being formulated by the Executive Committee, and will soon be announced.

Obituary.

Nicholas Ohmer died at his home near Dayton, O., Feb. 27th, aged 80 years. He was born in France and came to this country when he was quite young. He was a specialist in small fruit, especially strawberries, and originated the barrel method of growing strawberries. He was vice-president of Calvary Cemetery Association, a director of the Merchants' National Bank, president of the Montgomery County Horticultural Society, president of the Montgomery County Farmers' Club, and vice-president of the Ohio State Horticultural Society.

Edward H. S. Dartt, died at his home in Owatonna, Minn., on January 31st, aged 78 years. He was a native of Weathersfield, Vt. At the age of 20 he went to Ripon, Wis. He had resided at Owatonna continuously since 1869. He engaged in the nursery business there. For more than thirty years he was a member of the Minnesota Horticultural Society. Secretary Latham of that society says in the Minnesota Horticulturist: "Twelve years ago upon the establishment of the Owatonna station, created by an act of legislature, Mr. Dartt was made its superintendent, which position he retained till his death. He conducted a series of practical experiments there in the way of producing hardy fruits and increasing their productiveness; the results of which are in a large measure yet to be garnered by those who shall follow him in its management. Occasional reports of this station, have appeared from time to time in our publication, indicated the conscientious nature of the work he was doing. As a citizen of Owatonna, Mr. Dartt was held in esteem by all large minded and public spirited citizens. Dartt's Addition is now a well developed resident district in that city and shows the interest that he had in tree growing in their variety and profusion upon this property."

A VALUABLE ADVERTISING MEDIUM.

The March and April issues of the NATIONAL NURSERYMAN plainly indicate the value of this publication as an advertising medium. The columns are crowded with the announcements of the leading nursery firms of the country. This is the official journal of the American Association of Nurserymen. Subscribe now and keep the copies on file for reference. \$1.00 per year.

Recent Publications.

The thirty sixth volume of the transactions of the Illinois State Horticultural Society, containing the proceedings of the State Society, of the Northern, Central and Southern District Societies as well at various local societies, has been published. One excellent feature of these reports is that the matter is up-to-date, giving as it does the proceedings of these societies up to the beginning of the present year. Is a substantially bound book of nearly 550 pages and contains eight full page illustrations and also a group portrait of prominent horticulturists deceased during 1902. Particular attention has been paid in the proceedings of the several societies to papers and discussions, both practical and scientific, on fruit culture and the volume contains the latest information and the results of the latest experiments especially in the control of bitter rot and other fungous diseases and insect pests. While these topics have received special attention the subjects of flowers, ornamental planting and home decoration have not been neglected and some very valuable papers on these subjects are presented. Valuable features of this book are lists of fruits recommended for the different districts of the state accompanied by descriptions of the various varieties, formulas for the preparing of spraying mixtures and directions for applying the same, reports of the experiment stations, reports of experiments in building cold storage rooms and in keeping fruits, etc. This is a valuable book to all fruit growers and horticulturists generally. It is sent to all members free and to the public and school libraries on receipt of 15c for postage. Annual memberships in the State Society are \$1.00. Life memberships \$5.00. Address the secretary, L. R. Bryant, Princeton, Ill.

"The Redwood," Bulletin No. 38, by R. T. Fisher, will soon be ready for distribution. This bulletin is written to prove that it pays to hold cut-over Redwood lands for a second crop. It is divided into three parts, and contains supplementary discussions of "Insect Enemies of the Redwood," by A. D. Hopkins, and "The Brown Rot Diseases of the Redwood," by Hermann Von Schrenk.

The Book of Corn is the title of a treatise on the culture, marketing and uses of maize in America and elsewhere, prepared by specialists under the direction of Herbert Myrick, for farmers, dealers, manufacturers and others. It is a valuable and timely treatise on the world's greatest crop, and it would seem that an answer for any query on the subject might here be found. The book is profusely illustrated and well bound. Pp. 368. New York and Chicago: ORANGE JUDD CO.

A paper that will be read with pleasure by lovers of flowers is *Dwellers of the Dust*, by N. Hudson Moore, in the April Delineator. These dwellers of the dust are the first flowers of Spring, "that have lain the sullen Winter through, waiting for the warming sun to draw them above the ground"—the golden daffodil, the fair narcissus and tulip tall. They are written of with the pen of a nature lover, rather than that of a naturalist, and the legends that cluster around each flower are charmingly recounted.

We have acquainted our readers from time to time regarding the successful production of the genuine Smyrna fig in California, by George C. Roeding, of Fresno. So general has been the interest in this subject that Mr. Roeding has been obliged to publish a monograph on the fig, to be used in answer to the many inquiries which he has not time to attend to by personal correspondence. The treatise is handsomely printed and is of great value to all who are in any way in-

terested on this subject. Part I treats of the Smyrna fig in its native land, being an account of Mr. Roeding's visit to the orient. Part II describes the introduction and successful propagation of the Smyrna fig in this country, the credit for which is Mr. Roeding's. He has spent twenty years in a study of the subject. The book is fully illustrated. Nominal price: 25 cents.

The greatest lemon ranch in the world is the subject of an interesting article by W. S. Harwood in the *World's Work* for April. This issue of the magazine has the longest, most varied, and in some ways, the most interesting table of contents in its history.

The April number of *Country Life in America* is nearly as large as the double gardening number, but sells for the regular price. "The New Life in the Dahlia" explains the reason of the dahlia revival and tells how to grow the new creations. Other interesting and practical articles are "A Garden for Birds," "How to Grow Pineapples," and "The Warfare against Mosquitoes." It is evident that this magazine has no difficulty in maintaining its pictorial standard. It aspires to be the most useful as well as the most beautiful magazine devoted to the whole field of outdoor life.

Long and Short.

Specialties for the Spring of 1903 are announced in another column by George Achelis, West Chester, Pa. Among them are Sugar and Norway Maples, Babylonian Weeping Willows, Hydrangeas, Spirea, arbor vitae, etc.

Choice Perennial Phlox is a specialty with Henry Dreer, Philadelphia.

Red Gulf Cypress, greenhouse material, strictly free from sap is carried in stock by the Lord & Burnham Company, Irvington-on-Hudson, N. Y.

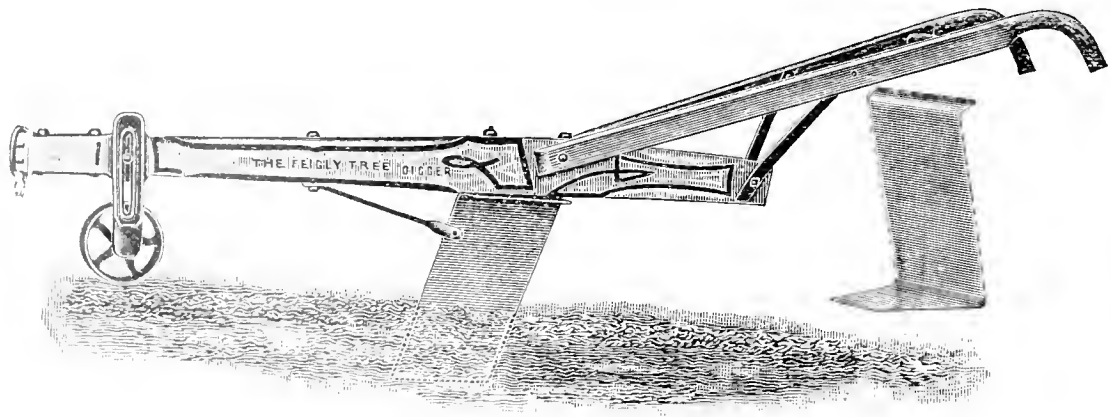
Norman's Fir and Eastern Spruce are offered by Samuel C. Moon, Morrisville, Pa.

George C. Roeding, Fresno, Cal., has 100,000 Bartlett pears in surplus.

Sixteen cars laden with nursery stock for the Meehan Nurseries at Dreshertown, Pa., awaited disposition at one time last month.

"FRUIT WELL SPRAYED IS HALF SOLD."

The above line is found in some publication or other, saying whoever is the author of the adage must have known of or used Deming Sprayers, made by the Deming Company, Salem, Ohio. Whether this be true in its entirety or not, there can be no question that fruit that is sprayed comes to a greater yield and matures in much better condition than where spraying is neglected. All agree that it is not now a matter of expediency as to whether to spray or not, but solely one of the best apparatus to be procured for the purpose. To the minds of a great many, the line of Deming Sprayers takes precedence of anything else on the market. They make bucket, knapsack, barrel and power sprays, each especially adapted to some particular class of work and all have proven their great worth in their work. We might mention the Deming Spraying nozzles, the high degree of perfection to which they have brought the mechanical agitation of the liquid and their perfected power sprayers as showing that what is rated as valuable, either in principle or application, is exemplified in its best form in the Deming line. The Deming catalogue should be in the hands of every man who will need a sprayer this spring. The 1903 edition is just out. It will be mailed free to anyone writing for it. Advertisement in another column.



The Feigly Tree Digger

A Money-Saving Tool for Nurserymen

Manufactured by

D. FEIGLY, MEDWAY, Ohio

SOLE AGENT.

Send for Circular.

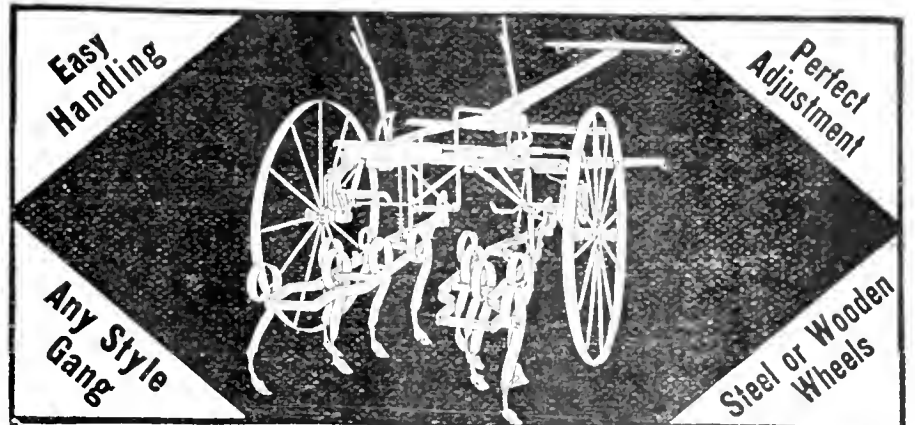
THE PEACH CROP.

Regarding the peach crop recent reports from the south to the American Agriculturist indicate that a very large proportion of the buds of all varieties have been killed in northern Georgia orchards. In the Fort Valley section in central Georgia experts estimate that about fifty per cent. of all varieties bearing before Elberta have been destroyed and only about forty per cent. of Elbertas remained alive March 15. In South Georgia there is a sprinkling of fruit buds which if they mature will make a fairly good crop. Injury seems not to have been so great in southern Georgia as in the northern part of the state.

WANTED, FOR AN ALL-AROUND OFFICE MAN, a bright young fellow of 20 to 25, familiar with nursery varieties and preferably having some knowledge of book-keeping. Must be of good address and capable of acting as traveling salesman occasionally.

JACKSON & PERKINS CO.,
Wholesale Nurserymen, NEWARK, N. Y.

GREEN RAPE costs 25 cents per TON!
Greatest, Cheapest Food on Earth for Sheep, Swine, Cattle, etc.
Will be worth \$100 to you to read what Salzer's catalog says about rape.
Billion Dollar Grass will positively make you rich; 12 tons of hay and lots of pasture per acre, so also Bromus, Paspalum, Speltz (400 bu. corn, 250 bu. oats per acre), etc., etc.
For this Notice and 10c. we mail big catalog and 10 Farm Seed Novelties, fully worth \$10 to get a start.
For 16c. we mail 150 kinds of Flower and Vegetable Seeds and catalog.
JOHN A. SALZER SEED CO., LA CROSSE, WIS.

**IN THE NURSERY ROW.**

Special features make the implement shown above particularly adapted to the nurseryman's use. The spring teeth can be used for deep or shallow cultivation, thoroughly pulverizing the soil and preserving the moisture; they can be set at any desired angle, giving them the necessary "suction" to force them into the hardest soil.

THE REED PIVOT AXLE CULTIVATOR

is under instant control of the foot. Slight pressure throws either wheel and its gang to right or left. If a rigid axle cultivator is desired you have it by simply removing a bolt and gangs will swing independently. A model for ease of handling and thorough cultivation under all conditions.

Agents Wanted in all New Territory.

Write for Catalogue and Terms.

REED MANUFACTURING CO., KALAMAZOO, MICHIGAN.

CALIFORNIA PRIVET

100,000 very best cuttings \$1.25 per 1,000 \$12.00 per 10,000

AMPELOPSIS VEITCHII

10,000 2 year, field grown \$3.00 per 100; \$25 per 1,000

Also 5 shares stock American Gardening Publishing Co. 4 per cent. dividends, value \$250.00; good investment; write for special offer.

WALTER H. HARRISON,

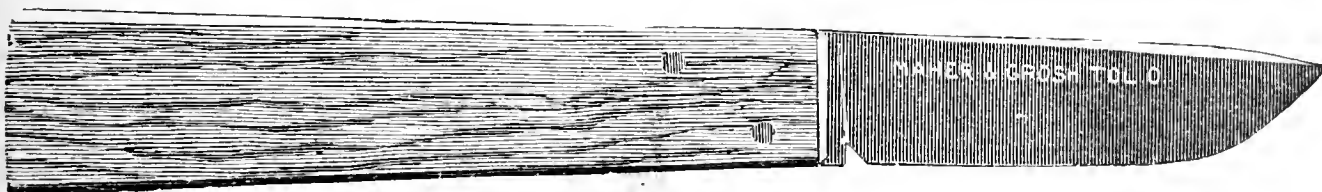
LA MOTT, PA.

WIRELESS TELEGRAPHY

appears to be a pronounced success, but LABELLESS TREES are an innovation that should not be considered, for the present season at least. Early orders by mail will conduce to your piece of mind later in the season.

BENJAMIN CHASE,

DERRY, N. H.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2.25.

BUDDING KNIFE with folding blade, No. 93. By mail 25 cents; 6 for \$1.75.

GRAFTING KNIFE. 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.

SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

Albaugh Nursery AND ORCHARD CO.

IN SURPLUS, in cellars in fine order :

PEACHES

75,000 first class, one-third Elberta.

APPLES

15,000, $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, leading varieties.

PEARS

5,000, 11-16 and up, first-class. Bartlett, Seckle, Kieffer, etc.

CHERRY

5,000, 2 yrs. Sour varieties, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

PLUM

1000, on plum, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

February 1st, 1903—First come, first served. Prices fair.

Albaugh Nursery & Orchard Co. PHONETON, O.

Inspector's certificate on all shipments.

The H. S. Taylor Co., ROCHESTER, N. Y.

Brighton Central Nurseries

We offer a full and complete line of Fruit and Ornamental Stock for spring trade. Send list of wants for quotations. Specially heavy on

Ornamental Trees, Shrubby, Roses, Etc.

Every convenience for Dealers billing out on our grounds. Correspondence solicited. Address

THE H. S. TAYLOR COMPANY, ROCHESTER, N. Y.

Offices, Cutler Building.
Nurseries at Brighton.

Fairmount Nurseries

GEO. PETERS & CO., Proprietors,
TROY, OHIO.

Offer for Spring, 1903, trade as follows :

Apple Cherry Gooseberries

Pear Plum Currants

Peach Apricot Grape

Quince Azaleas Tree Roses

Rhododendrons & Pyramidal Arbor Vitae

A GOOD SUPPLY OF BARTLETT AND KEIFFER
PEARS. Special Prices on Large Orders.

Apple, Pear, Plum and Forest Tree Seedlings

Write, or call on us for prices.

When writing to Advertisers mention The National Nurseryman.

KNOX NURSERIES 1851 1903

WE OFFER FOR SPRING

the following well grown, thrifty stock. We shall be pleased to quote price on application.

APPLE. 2 and 3 year, mostly $\frac{3}{4}$ and up. Ben Davis, Grimes, Ingram, Jonathan, Y. Imperial, Akin, N. W. Greening, Wine Sap, etc.

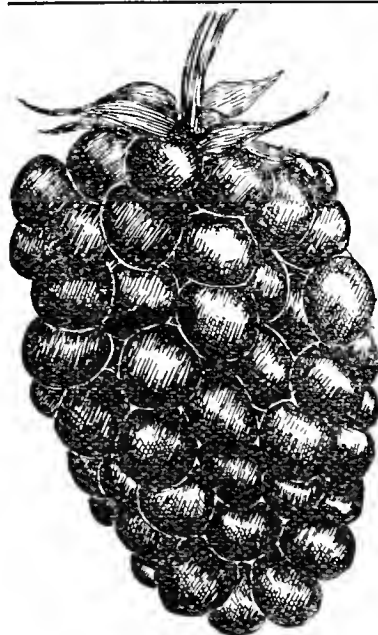
CHERRY. 1 year, $\frac{5}{8}$ and all up. Fine stock of elegant trees.

PEACH. 9-16 and up, and some small grades. Elberta and leading sorts.

KANSAS RASPBERRY TIPS.

SNYDER BLACKBERRIES. Sucker plants.

H. M. SIMPSON & SONS,
VINCENNES, IND.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE, FILS AINE

Nurseryman

AT USSY, CALVADOS, FRANCE

Grower and shipper of French Fruit Tree Stocks, and sundry Ornamentals, Evergreens, Conifers, Roses, Manetti and Multiflora, Etc. For quotations, Fall 1903 delivery, address my agents for the United States and Canada.

AUGUST RÖLKER & SONS, NEW YORK, 31 BARCLAY ST. P. O. BOX 752

WHOLESALE NURSERIES

We have a full line of stock for Nurserymen and Dealers, including APPLE GRAFTS PUT UP TO ORDER, PIECE OR WHOLE ROOTS, Thirty-five years in the business.

THE ONLY PRACTICAL BOX CLAMP IN USE—CHEAP

R. H. BLAIR & CO., Proprietors of LEE'S SUMMIT NURSERIES.

N. W. CORNER 11TH AND WALNUT STS., KANSAS CITY, MO.

Fall of
1903

Apple Seedlings Japan Pear Seedlings

And a General Line of Choice Nursery Stock

Address, A. C. GRIESA,

Wholesale Dept. Mt. Hope Nurseries

LAWRENCE, KANSAS

We offer for fall delivery the following well grown and graded stock.....

200,000 Apple Trees
600,000 Peach Trees
1,000,000 June Budded Peach Trees
100,000 Pecan Trees, 6 in. to 2 ft.
40,000 Cherry Trees
35,000 Pear Trees
5,000 Evergreens
25,000 Roses, 2 years Old

Let us figure with you on your fall wants

SOUTHERN NURSERY COMPANY
WINCHESTER, TENN.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

TO ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.
PULLMAN SLEEPING CARS.
WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention the National Nurseryman.

Over 400 Acres in Nursery.

60,000 Feet of Glass.

SPECIAL LOW PRICES

Are offered to clean up some blocks of

CHERRIES, 4-5 ft., 3-4 ft., and 2-3 ft. NECTARINES,
4-5 ft. GRAPES, heavy, 2 yrs. ENGLISH WAL-
NUTS, 18-24 in. CITRUS TRIFOLIATA. (Best de-
fensive hedge plant).

In addition to the above we have a fine lot of

SHRUBS, CONIFERS, DECIDUOUS SHRUBS AND
TREES. CLEMATIS APIFOLIA.

ORANGES, LEMONS, LIMES, POMELOS. KUM-
KWATS (Grafted upon Citrus Trifoliata), nice bushy plants,
1-4 ft. All fruiting size and pot grown.

CANNAS—dry roots, best sorts. CLIMBING CLOTH-
ILDE-SOUPERT-ROSE—field grown. RUBBERS, 10
12 in. (From top cuttings.)

250,000 PALMS

KENTIAS, LATANIAS, PHOENIX, PANDANUS and
CHAMAROPS. All in fine condition.

WRITE FOR PRICES.

P. J. Berckmans Co.

(INCORPORATED)

FRUITLAND NURSERIES,

Established 1856.

AUGUSTA, Ga.

THE

Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PÆONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

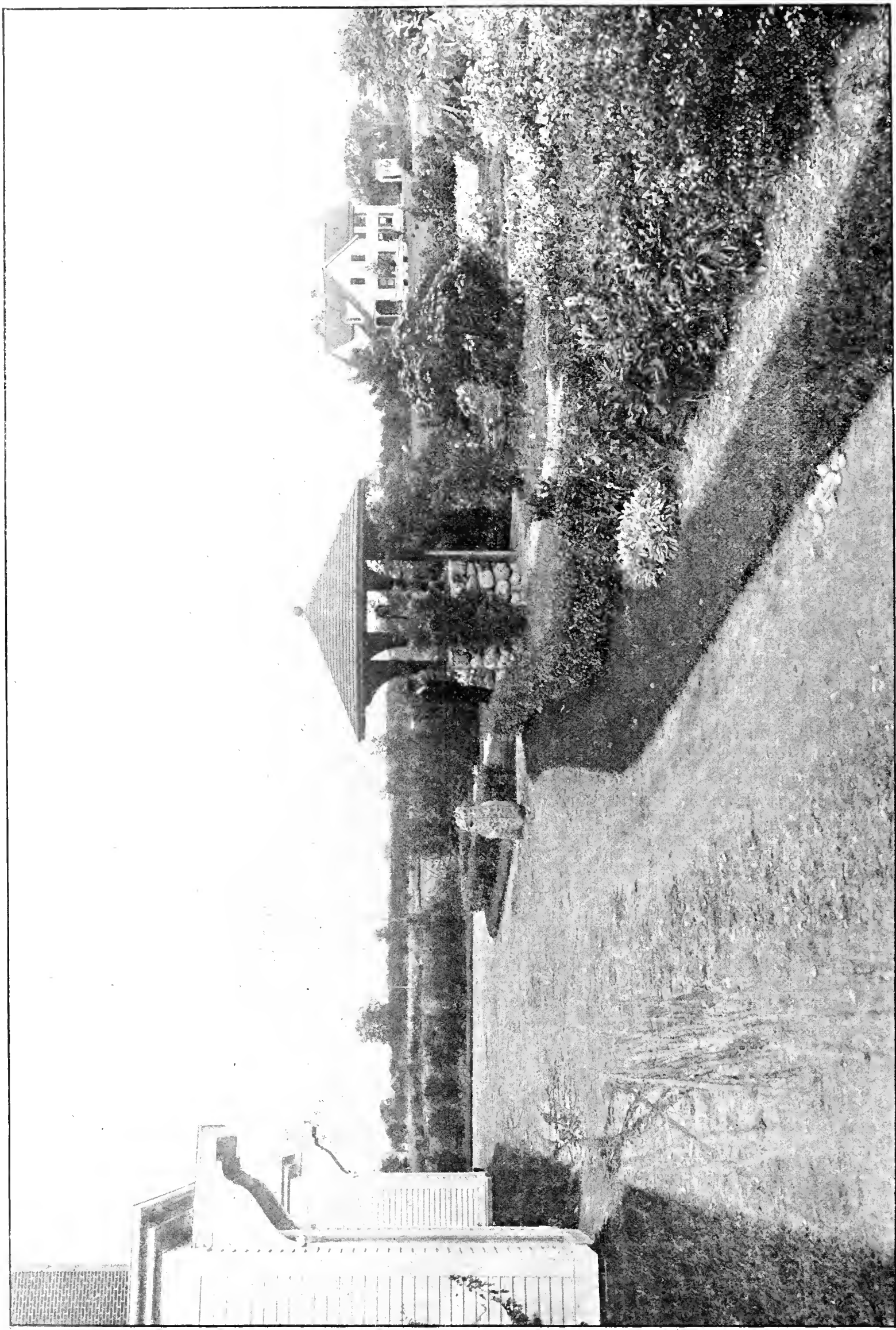
full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to advertisers mention The National Nurseryman.



VIEW OF GROUNDS AT THE REAR OF OFFICE BUILDING OF BROWN BROTHERS' COMPANY, BRIGHTON, N. Y.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

Copyrighted 1902 by The National Nurseryman Publishing Co., Incorporated.

"Experimental horticulture educates the taste."—B. F. SMITH, Lawrence, Kan.

Vol. XI.

ROCHESTER, N. Y., MAY, 1903.

No. 5.

DETROIT CONVENTION.

One of the Liveliest and Most Profitable Meetings in History of American Association is Promised at Detroit in June—Preliminary Program "the Best Ever"—Hotel Cadillac—Reduced Hotel and Railroad Rates.

The twenty-eighth annual convention of the American Association of Nurserymen will be held at Detroit, Mich., June 10th, 11th and 12th. The Hotel Cadillac will be the headquarters. Arrangements have been made with the proprietors of that hotel, Messrs. Swart Brothers, by which a reduced rate of \$2.50 and upwards has been secured. First-class service in every respect is promised.

Special attention has been paid this year to the preparation of a program for the convention sessions, at the suggestion of President Ilgenfritz. A program committee, of which J. Horace McFarland, of Harrisburg, Pa., is the chairman, has worked industriously to provide discussion which shall be of direct and permanent benefit to all who shall attend the convention. It is proposed to introduce vital and important questions, through men of known strength and ability, in short, suggestive papers or talks which will bring out active discussion. The following preliminary program is an indication of the success that has attended the untiring efforts of Mr. McFarland, who has had to interest nurserymen and others to a degree necessary to induce them to promise co-operation:

PRELIMINARY PROGRAM.

Prof. L. H. Bailey—"The Whole Question of Varieties."

J. H. Hale—"The Relation Between the Nurseryman and the Commercial Fruit Grower."

Discussion by Howard A. Chase, H. W. Collingwood, J. M. Irvine. Frank B. White—"Publicity for Nurserymen."

Discussion by Ralph T. Olcott, J. M. Irvine, L. H. Bailey, J. H. McFarland, H. W. Collingwood.

F. W. Taylor—"What the Louisiana Purchase Exposition Offers to Nurserymen."

H. W. Collingwood—"The Nurseryman as the Editor Sees Him."

William Pitkin—"Insurance for Nurserymen."

Discussion by George C. Perkins, E. Albertson.

Howard A. Chase—"The Agency Business—Its Importance to the Nursery Interests, and the Dangers that Beset It."

Discussion by C. L. Watrous; Howard Davis.

G. L. Taber—"The Nursery Interests of the South."

Discussion by R. C. Berckmans, N. W. Hale, W. F. Heikes.

E. W. Kirkpatrick—"The Nurseryman's Work in Texas."

George A. Sweet—"The Cost of a Tree."

Discussion by Herbert S. Chase, Orlando Harrison, W. F. Heikes, William Pitkin.

All the above has been arranged. It is hoped that there will be a discussion of "Spraying and Fumigation for Nursery-

men Up-to-date," by Prof. John B. Smith, and "Growing Ornamental Nursery Stock as a Business" by William C. Barry.

REDUCED RAILROAD RATES.

A concession of one full fare going and one-third returning has been granted by railroads as usual.

The Detroit and Buffalo Steamboat Company advises that arrangements have been entered into whereby all rail tickets sold on account of convention will be optional between Buffalo and Detroit, so that trip can be made by rail or water, and it is probable that the same will be true for trip between Cleveland and Detroit.

Do not fail to get a certificate of ticket agent when buying a ticket. Give your ticket agent notice in advance of your intention of availing yourself of this reduction so that he may have blanks on hand. If you have a commutation or mileage ticket, do not use it. Get a ticket and certificate for your trip, otherwise you may work forfeiture of the rights of all to reduced rates.

There must be one hundred certificates before the reduction applies.

Send your name and membership fee to the secretary, George C. Seager, Rochester, N. Y., and see that your room at the hotel is reserved.

The Northwest Horticulturist, Tacoma, Washington, under date of March, 1903, says: "F. M. Settlementier is planning for millions of trees. Eastern nurserymen will soon have competitors from this coast."

H. B. Bateman, Hood River, Ore., proposes to change his location on account of his health, and offers his nursery for sale.

R. H. Weber, nurseryman at The Dalles, Ore., has been appointed a member of the State Board of Horticulture.

S. A. Miller, of A. Miller & Sons, Milton, Ore., nurserymen, has been elected Mayor of that town for the sixth time.

John S. Kerr, secretary of the Texas Nurserymen's Association, reports that there has been a large increase in the planting of peach trees in Texas.

Harlan P. Kelsey has changed his office from the Tremont building to the Beacon building, Boston.

The nursery of W. E. Jones & Son, Lincoln, Ill., has been purchased for \$2,000 by W. J. Jones, Detroit, Mich.

H. A. Dreer, Philadelphia, sent to Ghent, Belgium, a consignment of Pandanus Sanderi to be exhibited at the quinquennial exhibition.

Sidney G. Courteen, seedsman, has been elected president of the Chamber of Commerce, Milwaukee.

P. J. Berckmans, Atlanta, Ga., has been offered the position of assistant state entomologist to succeed Prof. W. F. Fiske, resigned; but he is ineligible by reason of being a nurseryman and officer of the State Horticultural Society.

We acknowledge receipt of an invitation to attend the celebration of the one hundredth anniversary of the acquisition of the Louisiana territory which was commemorated by the dedication of the Louisiana Purchase Exposition. The one-hundredth anniversary celebration was held in St. Louis, April 30, May 1-2.

PROTEST OVERRULED.

Adverse Decision by New York Customs Collectors Regarding Classification of Evergreen Seedlings Sustained by Board of General Appraisers — The Decision in Full — The Protest, Brief and Affidavits.

A decision by the Board of United States General Appraisers at the port of New York, regarding the classification of evergreen seedlings, under a protest by August Rölker & Sons, New York, against the decision of the collector of customs at New York, is of general interest to the nursery trade.

On August 12, 1902, the following self-explanatory protest was filed :

NEW YORK, August 12th, 1902.

To the Honorable Collector of the Port, New York :

Sir:—We herewith protest against the assessment of one dollar a thousand and 15 per cent. ad valorem duties on our importation by S. S. Cevic from Liverpool of three cases of nursery stock, marked A. R. S. N. 315 a 317, entry N. 65598, under date of April 8th, 1902.

We claim that under the present tariff act, approved July 24th, 1897, Schedule G, No. 252, said goods are liable only to twenty-five per cent. ad valorem duties, as stocks of evergreen plants, after having been transplanted as the invoice indicates, and not liable to pay duty as evergreen seedlings.

We pay the additional duty demanded to obtain full possession of our goods, and respectfully ask to have said amount refunded.

Yours very respectfully,

AUGUST RÖLKER & SONS,
21 Barclay St., New York.

BRIEF FOR THE HEARING.

Following is a copy of the brief prepared by August Rölker & Sons, for the hearing of the protest before the appraisers :

NEW YORK, October 16th, 1902.

To the Honorable Board of General Appraisers Port of New York :

Gentlemen:—In the matter of our protest 10346, dated August 12th, it appears on the face of the consular invoice that the plants in question are all stock of *Juniperus Virginiana*, an evergreen, and all transplanted two years from the seedbed. We claim that under Schedule G, paragraph 252, transplanted evergreen seedlings are not liable to \$1 per 1,000 and 15 per cent. ad valorem duties, but only 25 per cent. ad valorem as stocks of evergreen trees, or as general nursery stock not otherwise provided for. The change in the tariff laws, from no duty in the previous bill to 25 per cent. ad valorem under the Dingley bill, was made at the instance of the nurserymen's trade. As such the definition of nurserymen should be of weight in considering the question at issue. As it was not practicable to have a selected committee of nurserymen attend here in person as witnesses, many living at great distances from New York, we obtained the views in writing of distinguished nurserymen, and beg herewith to submit such letters received in evidence. These nurserymen draw a positive line of distinction between plain evergreen seedlings and transplanted evergreen seedlings: the former are specially provided for in paragraph 252, Schedule G; the latter are not specially provided for in said schedule, and should, therefore, be classified under the 25 per cent. ad valorem duty rating. The letters herewith submitted in evidence show that plain evergreen seedlings are such that are grown in the seed-bed and remain there one, two, three or more years before being sold or transplanted. When transplanted from the seed-bed the character of the young plant gets changed. By trimming the roots, change of location, replanting at larger distances in rows, the plants grow to be more vigorous, become more valuable, and are then classified as transplants, or transplanted seedlings, stating the number of years elapsed since being transplanted, likewise the number of years, how often transplanted. Usually a seedling is allowed several years in the seed-bed before being transplanted, and a one-year transplanted seedling is in many instances more than three years of age.

The young seedlings from the seed-bed are the cheaper plants: the act of transplanting, trimming the roots and the longer years spent in formation of new roots and general development render the transplanted stock more expensive: and thus by this manipulation the former seedling plant enters into a new condition, a new stage of its life, and is properly called a new plant.

If an evergreen tree were to remain a seedling in the eyes of the law, whether transplanted or not, then \$1 a 1,000 only and 15 per cent. ad valorem could be assessed on all more valuable specimens that have been ten, fifteen or more years transplanted. Such interpretation would work less protection to the American nurseryman and besides give less revenue to the government.

All of the foregoing is respectfully submitted to your consideration in deciding the question at issue.

Very respectfully yours,

AUGUST RÖLKER & SONS,
New York, 31 Barclay Street.

NURSERYMEN'S AFFIDAVITS.

Letters from others on the same subject and of similar tenor, nurserymen's catalogues that substantiated the Messrs. Rölker's statement as to the classification of transplanted evergreen seedlings, and twelve sworn-to affidavits were presented at the delayed hearing, January 21st.

These affidavits were given by Thomas B. Meehan, Dreshertown, Pa.; Storrs & Harrison Co., Painesville, Ohio; D. Hill, Dundee, Ill.; William H. Moon, Morrisville, Pa.; A. Hoopes, of Hoopes Bro. & Thomas, West Chester, Pa.; George Achelis, West Chester, Pa.; Theodore J. Smith, Geneva, N. Y.; D. S. Lake, Shenandoah, Iowa.; A. Willis, Ottawa, Kan.; Albaugh Nursery & Orchard Co., Phoneton, Ohio; Frank H. Weber, St. Louis, Mo.; Franklin Davis & Co., Baltimore, Ohio.

The form of affidavit is as follows :

AFFIDAVIT.

.....December, 1902.

I, the undersigned, being a member of the firm of at, established in the nurserymen's business since the year, herewith declare and state, that it is and has been the practice of my firm to distinguish between plain evergreen seedlings direct from the seedbed, and one, two, three or more years transplanted evergreen seedlings; and that after having thus been transplanted, said seedlings are then considered by my firm to be young trees; and to my best knowledge and belief, they are then considered and classified by the nurserymen's trade in the assortment of general nursery stock as young evergreen trees.

THE DECISION.

Following is the decision of the Board of General Appraisers, Vol. 6. No. 13, March 26, 1903, of Treasury Decisions :

The importer claims the merchandise dutiable at 25 per cent. ad valorem under the provisions of the same paragraph as "evergreen trees or plants," in that they have been transplanted before importation, upon the contention that when an evergreen seedling has been transplanted that fact removes it from the category of seedlings and it becomes a tree or plant. As to the *Buxus suffruticosa* (case 293, protest 5151h), the claim is made that these are cuttings and not seedlings, and it is so admitted by the collector.

This question has been raised in previous protests and decided adversely to the protestants. In support of the protests in these cases there have been filed by the importers numerous affidavits, letters from botanists, and catalogues from nurserymen. It may be stated generally that these catalogues, letters, etc., relate to the years 1901 and 1902, confining the proofs made to those years. For that reason they are incompetent to establish trade designation as it existed at and prior to the time of the enactment of the present tariff law.

An examination of the evidence submitted, however, discloses a lack of uniformity among the dealers in this trade as to the designation in question. The contention of the importers, in brief, is that a tree propagated from a seed, after having been transplanted, ceases to be a seedling and becomes a tree; and that the term "evergreen seed-

ling" as used in the tariff act for that reason is applicable only to those seedlings which have not been transplanted and which remain in the locus of germination.

This Board has previously held that the word "seedling" as used in the tariff act was used in the sense and as defined by the recognized authorities. In that sense it is defined in the Standard Dictionary as "a plant grown from a seed as distinguished from one propagated by a cutting, budding, or grafting;" and in the Century Dictionary as "a plant reared from a seed as distinguished from one propagated by layering or from the bud or grafted tree or shrub." This seems to be the sense in which these words were used by Congress. It will be noted in the paragraph quoted that in three places are used in the same order the words "stocks, cuttings, or seedlings." It is manifest from the repeated use of the words thus phrased that it was intended by Congress that these descriptive words should embrace every possible kind of plants or trees of the kinds subsequently enumerated however, and by reference to the manner propagated in the first instance. It is equally manifest that the word "seedlings," as used in this phrase, is intended to be used as descriptive of the manner of the generation of the plant as to whether from a cutting, stock, or seed, and not with reference to its subsequent conditions, growth, or transplanting.

That there is no uniform trade understanding in this country that a seedling which has been transplanted ceases to become such, is made evident by some of the evidence submitted by the importer. In Samuel C. Moon's trade list submitted is catalogued, under "Deciduous ornamental trees," "Purple leaved seedlings, two or three feet, twice transplanted;" and on page 8 of the same catalogue are described "Cydonia Japonica seedlings, 18 to 24 inches, transplanted." And so, in the letter of September 19, 1902, submitted by F. E. Olmstead, acting chief of the Bureau of Forestry of the United States Department of Agriculture, Washington, D. C., it is stated:

"I do not know of any acknowledged classification of seed bed and nursery evergreen stock. My opinion and practice in the matter are as follows: One, two or three year old plants in the seed bed are seedlings; one, two, or three year old stock transplanted from seed bed to nursery rows are transplanted seedlings up to four years; nursery stock older than four years, transplanted any number of times in the nursery, are nursery trees."

From this evidence it would appear, and we find as a fact herein, that neither in the understanding of botanists nor in the trade was there a general and uniform understanding at and prior to the passage of the present tariff act that a seedling which has been transplanted ceases to be a seedling.

It may be noted with reference to the repetition of the term "evergreen seedlings" in the paragraph, bearing different rates of duty, first, that the former is the more specific designation extending to "evergreen" seedlings only, whilst the latter extends to seedlings "evergreen and deciduous;" and, secondly, that the former provision levies the higher rate of duty of the two, \$1 per thousand and 15 per cent. ad valorem, as against 25 per cent. ad valorem, both of which reasons make applicable the former, more specific and higher rate of duty.

The protests are therefore overruled as to all the merchandise except the *Buxus suffruticosa* (case 293, protest 5151h), and as to that item that protest is sustained. The collector will be governed accordingly.

WINCHESTER, TENN., April 20.—Southern Nursery Company:

"Spring planting is over. Prospects for stand of apple and pear grafts were never better. The stand of peach seedlings is good, except where Smock seed were planted. Only about one-fourth stand of these pits are up.

"The outlook for nursery trade for fall is very bright. Nurserymen here are already booking large orders for peach. It is estimated that 5,000 bushels of peach seed were planted here last fall."

DENISON, TEX., April 4.—T. V. Munson: "Business with us better than ever before. Cleared up on nearly every line."

SHERMAN, TEX., April 27.—JOHN S. KERR: "Our nursery trade the past season has been the best by far of any season in our thirty years' history. Nurserymen have all done well."

SOUTHERN POINTS.

Wet Weather Affected Orders, Some Being Countermanded—May Be Shortage of Peach—Five Thousand Bushels of Peach Seed Planted at Winchester, Tenn.—Texas Business Better Than Ever—Maryland Growers Shipping Strawberry Plants

BERLIN, MD., April 24.—J. G. Harrison & Sons: "Sales in the first part of the year were very good, especially wholesale; but dropped so much later in the season. The retail orders also dropped off, I think principally from the country being flooded with water and people could not get on their grounds to plant. We had many good orders countermanded that were placed early in the year."

SNOW HILL, MD., April 20.—William M. Peters' Sons: "We have no reason to complain. Our trade this spring has been very satisfactory. Everything but strawberry plants closed out very close. If collections prove as satisfactory as the number of orders received and shipped, it will be the banner year in the history of our business. Our stock of strawberry plants proved to be much greater in numbers than we had estimated. Orders in numbers exceeded those of any previous season, but not so large. Our season opened up much earlier than usual for shipping, and we are still shipping strawberry plants, and orders will probably continue to come in for them until May 10th.

"Our stock of peach for the coming fall in one-year olds will probably not exceed 300,000, much less than half of the past season, and this section will, beyond a doubt, be short on peach especially. We shall try to overcome this shortage to some extent by June budding, and are using our efforts in that direction, hoping to supply our Southern trade in this way. Prospects for a good stand of peach seedlings are very promising at this time.

"We are planting out two millions of grape cuttings, thirty or more acres of strawberry plants, also largely of California privet, asparagus, and other fruit stocks, but not trying to increase over former years. While we have had a very unfavorable spring for planting, on account of too much rain, which has delayed the planting later than in previous seasons, we hope that we will be favored with better weather from now on. Up to this time it has been the wettest season we have experienced in early spring for over thirty years. So far as we can learn, we think that very little stock of any kind will be carried over that was ready to go out this spring. As far as we can determine, the shortage in this state will be peaches.

"We see nothing at present indicating a surplus for the coming season, and we look for as good results as we had the past season. This, of course, will depend some on the present crop of fruit. While it is hurt some, there are at this time prospects of an average crop through this peninsula. From reports made us throughout this section, we predict another prosperous year for all industries. Everyone seems to be busy, there is no lack of employment, and all seem to be happy."

Severe frosts, snow and hail storms in France during April damaged the crops of nurserymen, vineyardists, fruit and seed growers. Damage was also caused to stock in other European countries.

IN THE EAST.

Summary of Conditions of Spring Trade—Large Increase in Business—Plantings Probably Increased—Wholesale Prices May Be Advanced on Cherry and European Plum—Dansville Reports Heavy Catalogue Trade—Season Extended.

GENEVA, N. Y., April 20.—The R. G. Chase Company : "We have had a most excellent spring's business, and stock with us has been nicely cleaned up. With our new plant we were enabled to endure the past season without any discomfort.

"We look for a good year. Will plant about our usual amount of stock, namely, 50 acres. We expect to see wholesale prices somewhat reduced in some lines, especially apple and peach, but consider that plums and cherries will hold nearly to what they have been the past year.

"Stock in the nursery has survived the winter in excellent shape, and with a good growing season we expect to see some very fine blocks."

NEWARK, N. Y., April 22.—Jackson & Perkins Co.: "Business this spring has been a record-breaker with us. We have shipped out nearly 50 per cent. more than any previous spring. The season here was exactly what we would have asked for if we could have had it made to order. The frost was out of the ground soon after the 1st of March, but the weather remained cold enough so that stock remained dormant until well up to the latter part of April. In fact, we are still shipping out little lots of some items."

ROCHESTER, N. Y. April 24.—Brown Brothers Co.: "The season's trade has been excellent. It has been a late, cool season so that our late business, both in wholesale and retail, has been very heavy, in fact better than ever before. Our total shipments, in all departments, are much heavier than usual. We think there is a large amount of stock being planted this spring. Merchantable stock has been cleaned up quite closely.

"Cherry, European plums and possibly some other things, we think, are going to be higher another year."

DRESHERTOWN, Pa., April 28.—Thomas B. Meehan & Sons: "Our spring season opened up some ten days earlier than usual this year, and we had beautiful weather for work. Business was heavier this season than we have ever experienced it, and while the aggregate of stock shipped out was considerably in excess, yet we do not think there were quite as many very large orders as usual. A week or ten days of constant rain during the middle of April put us back considerably in our shipments. Otherwise, we have no reason to complain of the weather. We are still shipping orders received from day to day at this date (April 28th), and the prospects are that these small orders will continue for a week or ten days.

"While we opened the season with a larger stock than usual, yet everything has been pretty well cleaned up. Some of our staple lines, like Hydrangea P. G., did not sell as well as usual, and we have some surplus of these, but Viburnum plicatum, red-flowered Dogwood, and some of the other prominent lines in our work were cleaned up almost before the season fairly started.

"Our plantings this year will be a little more extensive than

usual. Reports in this section indicate a very satisfactory condition of affairs among nurserymen."

MORRISVILLE, Pa., April 20.—S. C. Moon : "Business is good and I hope the season is not more than half through yet. Last month was warm, but at present we are favored with cool weather and business is increasing rather than diminishing. Evergreens are in good demand. New planting about as usual.

DANSVILLE, N. Y., April 24.—James M. Kennedy : "We have had a very early spring. We commenced digging and shipping the first week in March, and at the present time we are practically all through digging and shipping in the wholesale and agents' trade. The catalogue trade is very busy and will be for ten days or two weeks. The wholesale and agents' trade was all that could be expected. Trees were never in better demand and at good prices. We had to turn away orders on account of the scarcity. Every salable tree will be disposed of, no matter what variety or grade, at good prices. Some varieties it was impossible to procure at any price.

"The catalogue trade did a good business a year ago; but this year will be a record breaker, as we will do double the business of a year ago.

"Our planting this spring will be about the usual amount. Nursery stock has never wintered better. Collections have been good up to this writing. We have our usual supply of apple, cherry, plum, quince and pears for next fall and spring delivery.

"We think on the whole a cheerful outlook presents itself for a few more years, which the nurserymen will appreciate."

ROCHESTER, N. Y., April 25.—JOHN CHARLTON & SONS : "We think our trade for spring of 1903 has been up to the usual standard. We, however, doubt very much if as much business was done as was contemplated to be done in early winter, and think some may have been disappointed at the amount of their sales.

"Dealers (not growers) had the largest lists of surplus stocks to throw on the markets we have ever seen before. Still the most of these offerings were disposed of. This, however, shows their retail sales were not as large as was expected.

"There are some surpluses of apples, pears and peaches left on hand. The stocks of sweet cherries were completely exhausted. Plums, perhaps, were enough to satisfy the demand. No shortage in pears but Bartlett and Seckel.

"It has been a remarkable spring for packing nursery stock, no severe freezings occurring after digging commenced; cool and pleasant. Orders still coming in, owing to the cool, favorable season."

SERGEANT-AT-ARMS FOR THE FLORISTS.

The executive board of the Society of American Florists, preparing for the annual convention in Milwaukee in August, discussed the question of how to keep members interested in the work of the society while in session and it was finally decided that the president be authorized to appoint a sergeant-at-arms with two assistants, whose duty it shall be to enforce the rules regarding the management of the trade exhibition, to insure as far as possible prompt and full attendance at the sessions and maintain order in and about the convention.

IN THE WEST.

**An Unusually Wet Spring Made Work of Handling Stock Expensive
—Planting Delayed—Surplus in Apple and Peach—Cherry,
Plum and Small Fruits in Strong Demand at Good
Prices—Trade Continued up to May 1st.**

SHENANDOAH, Ia., April 23.—E. S. Welch: "The season's trade with us has been excellent, taken as a whole. Our trade on ornamental stock has exceeded any previous season. The demand for apple and peach has not been up to our expectations, and prices have not been as firm on them as we had anticipated. For some reason there was not as much of this stock planted as we had expected.

"Cherries, plums and small fruits of most varieties were in strong demand at good prices.

"We are still busy filling rush orders, and think there will be considerable trade up to the first of May. Have not had time to get our books up to date yet, but think our volume of business will exceed last year's. Customers are generally pleased and hopeful for the future. Are making about the same plant as we did last year. Collections satisfactory to date."

OTTAWA, Kans., April 23.—F. H. Stannard Co.: "We have had a splendid winter and spring trade, the largest we have ever had. We are entirely sold out on some lines, and very closely sold on others, having some surplus in heavy grades of apples and a few peach. We have had an unusually wet, bad spring, which has made it very expensive in handling the stock that was not handled in the fall, and our planting has been very much delayed.

"However, our season has been in a general way very satisfactory, and the outlook for summer's trade is encouraging."

CHANGE IN A WESTERN FIRM.

We are advised that the wellknown firm of A. C. Griesa & Bro., of Lawrence, Kansas, have dissolved partnership. This was one of the oldest firms west of the Missouri river, being established in the spring of 1869. The business will be continued by Mr. A. C. Griesa who bought the interest of the brother, and is now the sole proprietor.

Thirty-four years in Kansas takes one back to somewhat of pioneer days, and it may not be without interest to know that in February 1869 the present proprietor left his home in Western New York to try his fortune in the Sun Flower State, and to start the Mount Hope Nurseries (of the West). We

say "start," advisedly, for about the only capital invested was whatever there was of pluck, and the Hope of Youth which knows no failure.

From a few thousand grafts, a few more thousand cuttings, a few acres of land, to the present establishment, tells the story of a continual growth of a business that is certainly gratifying, and which now consists of upwards of one hundred and fifty acres devoted to the business and whose dealings extend to the principal firms of the United States and Europe.

Mr. Griesa is a member of the American Association of Nurserymen and of the Western Association of Nurserymen, keeping in close touch with the many interests. He has one of the pleasant homes of the city, with all the up-to-date improvements, a family of a wife and four children, three daughters and a son, where we are sure any visiting nurseryman will find a welcome. THE NATIONAL NURSERYMAN has not missed a visit to this home since its publication. Mr. Griesa like many

others of the craft, is of foreign birth, being a Prussian, a lover of his profession, and of all that makes life and its surroundings more beautiful.

Lawrence is forty miles west of Kansas City, on the main lines of the A. T. & S. F. R. R. and the U. P. R. R. with a population of about thirteen thousand, a city of homes, churches and schools, the seat of the State University, making it one of the educational centers of the West. It has long been known as a nursery center.

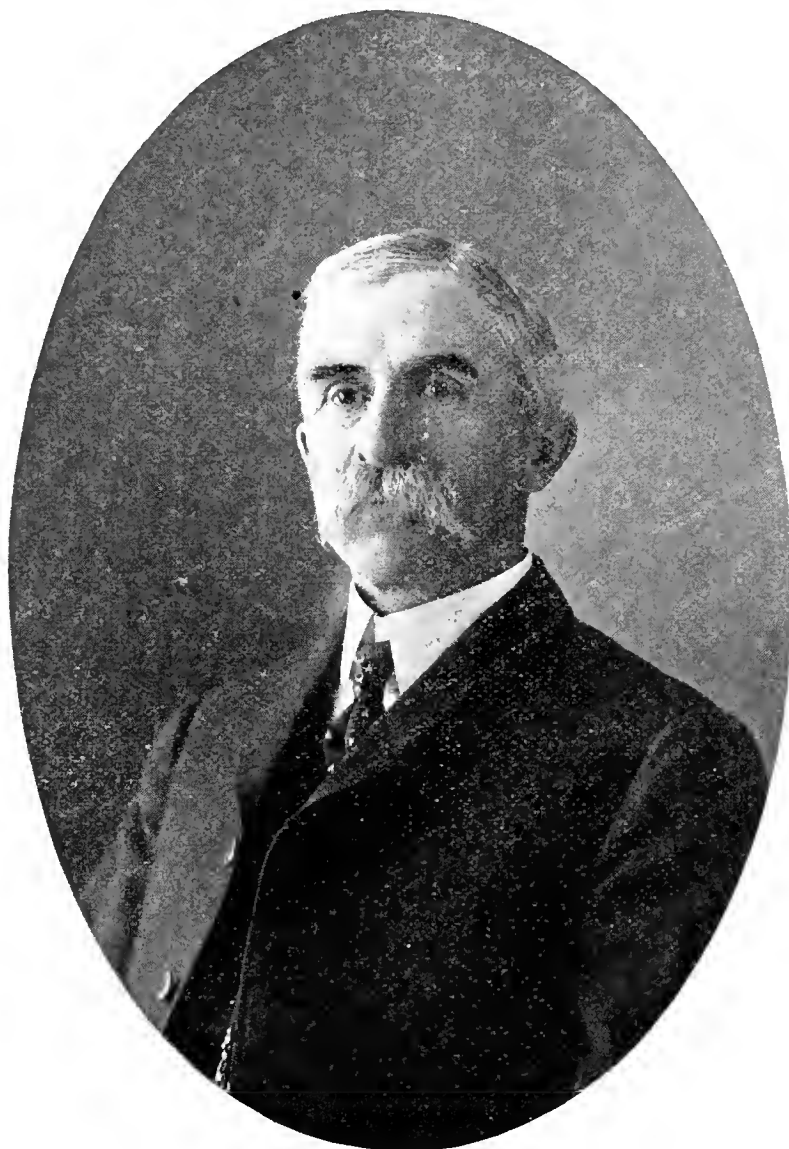
GREENHOUSE BUILDING.

The Lord & Burnham Company, Horticultural Architects and Builders of Irvington-on Hudson, N. Y., have nearly completed a galvanized plant in connection with their works at Irvington, and in future intend to galvanize nearly all the iron-framed tables and beds that they make. The advantages derived from this galvanizing will be readily seen as the frame work will not require painting, and the additional cost of galvanizing over and above the cost of painting is not a

large item. Besides iron-framed tables and beds, they propose to galvanize the angle iron eave plate in commercial houses, at a slight extra cost, whenever the owner desires.

The Lord & Burnham Company have now the most complete works devoted to greenhouse building, including foundry, boiler and machine shops, wood-working mill, carpenter and paint shops, etc., fitted with the latest and special machinery in every department. They keep on hand a large stock of cast-iron gutters, sills and other finished and unworked materials, which greatly facilitates the execution of orders. They carry on hand the largest stock of air-dried cypress and assortment of sizes to be found in the North. They use only this kind of lumber, as they find that when properly treated it is superior to any other.

They will be pleased to send a copy of their catalogue on receipt of 5 cents for postage.



A. C. GRIESA.

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The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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Annual convention for 1903—At Detroit, Mich., June 10-12.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., MAY, 1903.

THE SEASON'S TRADE.

The spring trade of 1903 was affected more than usual by weather conditions, especially in the Central States and the South. Owing to the good prices of last fall nurserymen prepared for a large spring business, but the winter canvass was cut short on account of bad roads, and conditions were adverse to retail sales. Trade opened somewhat slowly, and although it became more active and finally swung off as usual, the surplus stock in some lines was more than has been noted lately. Almost all ornamental stock has been sold out quite closely in

many sections. In most fruit lines in the West the supply for fall promises to be about as usual. Nurserymen are planting less apple and more cherry.

In the East the season was more favorable. Reports indicate a large increase of business. Delayed orders extended the shipping season to planting time and nurserymen were behind in their work. It is thought that wholesale prices may be somewhat reduced in some lines, especially apple and peach. Plum and cherry will probably hold up and may even advance.

Reports from Canada show a favorable season for digging and packing, with a good demand for stock and an output larger than usual.

From Maryland comes the report of a probable shortage on peach. The wet weather in the South caused a dropping off in orders and some countermands.

All unite in the opinion that the fall trade will be good, and a Michigan nurseryman believes the nurserymen of the United States should be in a very happy mood at the Detroit convention.

ACTIVITY IN THE SOUTH.

Nurserymen and fruit growers of the South are actively engaged in increasing their business. So great has become the interest in peach culture that a monthly journal devoted principally to the growth of the peach has been started at Atlanta, Ga. Among the articles in the first issue of this journal is one presenting the address by R. C. Berckmans, Jr., at the meeting of the Carolina State Horticultural Society.

We note that R. C. Berckmans has purchased 500 acres on the Macon branch of the Georgia railroad, about one mile from Mayfield, Ga., and has set out 53,000 peach, 10,000 pear and 3,000 plum trees. Mr. Berckmans is also interested in the Berckmans-Whaley orchard, adjoining his own which has 15,000 peach trees.

LIVELY MEETING PROMISED.

Through the combined efforts of President Ilgenfritz, Chairman McFarland of the program committee, and the official journal of the American Association of Nurserymen which has repeatedly urged the importance of making the most of the business sessions of the convention, a program has been prepared this year promising to bring out active discussion of practical topics at the Detroit meeting. Mr. McFarland is certainly entitled to the hearty thanks of the Association for his work on the program. President Ilgenfritz has been to Detroit and made especially attractive arrangements for the sessions. The meeting hall and place for exhibition in connection are particularly desirable.

We publish in another column the preliminary program, from which it will be seen that provision has been made for practical convention work.

The question box will be a feature of the convention. It will be open until Wednesday afternoon, when it will be closed in order that the questions submitted may be assigned for thoughtful answer. Nurserymen are requested to submit "warm" questions, questions they really think are hard, questions whose answers would be valuable and would interest the practical nurseryman, questions that "have long bothered

them," and questions that they "have never heard answered."

There should be a large attendance at the Detroit convention. Aside from the opportunity to meet the active men in the nursery business and to learn from the experience of others, there are many places of interest in Detroit and vicinity to visit.

Let every progressive nurseryman determine to attend this centrally located convention; take up the matter of reduced rates, obtaining information from his local ticket agent and reserve at once his room at the Hotel Cadillac. Combine business with pleasure. Detroit is the convention city of the world.

ADVERSE CUSTOMS RULING.

We present in this issue the case of the protest by August Rölker & Sons, New York, against the classification of evergreen seedlings by the collector of the customs at the Port of New York, and the overruling decision by the Board of Appraisers. Twelve affidavits and twelve letters, all from experienced nurserymen, are thus overruled by the department.

The Messrs. Rölker will probably not push the case further, but the American Association of Nurserymen may desire to carry the case into the United States Circuit Court. We are informed that this is the only way in which redress can be had. A suit on appeal from the decision by the general appraisers would involve an outlay of at least \$75 for court costs. The time to start suit on the protest of Messrs. Rölker expired on April 21st; therefore, if the nurserymen as a body decide to take the matter to the highest court for final decision they must do so by protesting some entries made later and await a new decision.

If brought into court the case may hang fire for two or three years. But it is thought that if positive action were taken by the American Association of Nurserymen in convention assembled, the ruling board might modify its decision and the tedious delay of a court action might be avoided.

Under the present ruling, the American grower of larger evergreen plants from seedlings is less protected than under the 25 per cent. ratings it is claimed.

A report from the committee on tariff may be expected at the Detroit convention.

NURSERYMAN APPOINTED TRUSTEE.

Irving Rouse, Rochester, N. Y., last month received from Governor Odell the appointment of trustee of the New York Agricultural Experiment Station, at Geneva, N. Y. This is an honor of which Mr. Rouse is highly deserving and the appointment gives the nurserymen of the Empire State a guaranty that their interests will be considered in connection with the business of the station.

NURSERY STOCK FOR ST. LOUIS FAIR.

During the last week of April, Ellwanger & Barry, Rochester, N. Y., shipped three carloads of ornamental nursery stock to St. Louis, for planting in the exposition grounds. The landscape gardener in charge of the work at St. Louis, George E. Kessler, went to Rochester and selected the stock.

ARE PRICES TOO HIGH ?

Suggestion That Drop of a Few Dollars Per Thousand on Apple Would be Advisable—Conditions of Spring Trade That Call for Consideration—Apple Trade in West fell Down—Surplus of Peach—Brisk Trade in Other Stock.

North Topeka, Kans., April 27 —A. L. BROOKE: "Regarding the state of trade at Topeka this spring, it is a question among nurserymen as to the cause of it all. From fall of 1902 to spring of 1903 the conditions seemed to reverse themselves; in fact the apple trade fell down. At the beginning of March the trade was tottering. It seemed to want to right itself, but couldn't. However, as April draws to a close, the long-drawn out season of trade in stock has given some vigor that the early opening did not possess. Peach in the West is pressed down by a winter-killing of the crop in the more northern localities of the peach orchards. Some peach trees find themselves in the brush pile.

"Cherry has been in good demand and all two-year surplus has found a market at good prices. The same is true of plum.

"The trade in seedlings and apple grafts has been brisk, and no stock still on hand of any considerable amounts.

"After looking over the field we see nothing discouraging, though some firms seem to see low prices ahead.

"The fact is, prices have been too high for a healthy state of trade. Many persons have been driven from the field by the high price of apple. A drop of a few dollars per thousand would give a more balanced ration, and in our opinion be better for all.

"It is too early to tell what will be the outcome of the spring plant. There has been more than the usual amount of bad apple seed planted."

THE EVERGREEN SEEDLING DECISION.

Irving Rouse, chairman of the committee that drafted the paragraph in the tariff act relating to evergreen seedlings, referred to in the protest by August Rölker & Sons, said to a representative of the NATIONAL NURSERYMAN:

"The general appraiser, Mr. De Vries, has undoubtedly reached a just and correct decision on the protest. Evergreen seedlings were included among the articles calling for an ad valorem duty of twenty-five per cent, but after the bill had been introduced, a number of western evergreen growers requested us to have evergreen seedlings put on the specific duty list. This was agreed to by the committee, and the change was made by the congressional committee having charge of the bill. If the words "and evergreen seedlings" had been put in advance of the "three-year-old or less" qualification immediately preceding it, as they should have been, there would have been no chance for difference of opinion. The error in the wording was due entirely to the congressional committee and not to the nurserymen's committee."

W. C. REED, VINCENNES, IND.—"Please find enclosed draft for \$1 for renewal. I don't see how any nurseryman can afford to be without the NATIONAL NURSERYMAN."

CENTRAL STATES.

Most Lines of Stock Sold out Closely—Surplus of Some Kinds Due to Shortage in Winter Canvass on Account of Bad Roads.

Most Nurseymen Were Sellers Early in the Season.

Trade Picked up Later—Planting

About as Usual.

BRIDGEPORT, IND., April 20.—Albertson & Hobbs: "It is a little early yet for us to size up the season's business, as we are just now completing the rush of our packing season, though are still shipping out more or less goods daily. Have not yet had a chance to do anything in the way of posting our books, or balancing up to see how business had been done or how it is coming out.

"We know there is quite a little surplus stock on hand, of some lines rather more than usual. This is largely attributed to the shortage in winter canvass on account of roads, though we have apparently had a very satisfactory season's business. Most lines of stock have been sold out very close, prices have remained very fair, and while there will be some surplus stock in the country, do not think the nurserymen have much room for complaint; but can congratulate themselves on a good year's business, and for prospects of an equally good business in the coming year at steady prices.

"As to the planting this spring, our own planting will be about the same as last year, as we are keeping up about the regular planting, and we think the plantings of others in the state will be about the same as last year, except probably a little heavier planting by some of the smaller nurserymen.

"The season has been very wet with us, and planting is going to be very late, having been delayed by the wet weather, most all of it yet to be done, and doubtless should it turn dry there will be a shrinkage in the stands, so we do not look for any extra amount of stock from this season's planting.

"Stock is, most of it, coming through the winter in good shape and is starting out very nicely, and we ought to have a good season's growth.

"Almost all ornamental lines have been sold very close and will be short for fall, but in fruit lines we think the supply for fall will be about as it has been for the past few years."

XENIA, OHIO, Apr. 20—McNary & Gaines: "A head end collision of March and April weather running on each other's time disconcerted business to some extent. Trade opened up slowly as the result of the open winter and bad roads, conditions adverse to large retail sales. The trade has, however, in the aggregate, been quite sufficient to use up the light supply remaining from a heavy business last fall, in most lines at least. Planting this spring is about normal. Prospects for fall business are exceedingly bright."

PHONETON, O., Apr. 20—N. H. Albaugh: "Last fall trees were in great demand, hereabouts, and at high prices. Most nurserymen laid in a good supply of all kinds. The winter was uncommonly bad for traveling salesmen; in many places the roads were impassable. When nurserymen sent out their advance wholesale lists this spring, they received few responses, as nearly all nurserymen were sellers and not buyers.

"Trade picked up, a little, later, but not enough to consume the general surplus. Probably more surplus nursery stock will remain over this spring than for several years past. About

the same amount will be planted this spring as has been planted for several years past."

VINCENNES, IND., Apr. 22—H. M. Simpson & Sons: "We have had a very good trade this spring and are pretty well cleaned up on all lines of stock. The outlook is very encouraging and look for a good fall business unless something unlooked for occurs.

"We are planting less apple and some more cherry than usual but the amount of planting in this section is about as usual we think. The weather has been exceedingly bad this spring and the incessant rains have delayed planting and much is yet to be done. The ground is far too wet to plant and we can only wait and pray for dry weather. Luckily we had a dry field and got the larger part of our plant in some time ago. Our stand of buds in peach and cherry is extra good."

KALAMAZOO, MICH., Apr. 21—Charles A. Maxson, General Manager Central Mich. Nursery: "In the midst of making the largest shipments this nursery has ever made, we are unable to make a report that would be anything like comprehensive as regards to any surplus or shortage that we have at the present time. It is my opinion that the nurserymen of the United States should be in a very happy mood when they go to the beautiful convention city of Detroit in June for their annual convention. I suggest that each member wear a McKinley carnation and a 'Josslyn smile' on that occasion as an evidence of 'Peace on Earth and Good Will Toward Men.'"

Obituary.

J. W. Withers, president of American Gardening Publishing Co., died in Jamaica on April 13. He was a gardener in England at one time.

James J. Fromow, senior partner of the firm of W. Fromow & Sons, of the Sutton Court Nursery, Chiswick, England, died March 13th, aged 48 years. He was especially interested in the firm's branch nursery of 200 acres at Bagshot.

William Fell died suddenly of syncope, at his home in Hexham, Eng., last month. Of him a writer in the *Gardeners' Chronicle*, of London, Eng., says: "Mr. William Fell was very popular as a nurseryman, and highly respected by farmers, gardeners and foresters in the North; he was greatly esteemed because of the great interest he took in the formation of the English Arboricultural Society, in whose interests he worked hard from its inception, and of which at the time of his death he was the senior vice-president. He, in conjunction with Mr. William Milne, bought the old established nursery and seed business of Mr. Joseph Robson, Hexham, and by his energy and business ability, he very soon developed it to an extraordinary extent, both in America, Ireland, the Isle of Man, and on the Continent, and perhaps no firm has ever sold, or been the means of distributing, so many of that well-known gooseberry, Whinham's Industry, as it has done. In every other nursery department the same success was achieved. Some few years ago the firm was appointed royal seedsmen, and about three years ago it was turned into a limited liability company, so as to further extend their business connections abroad, with Mr. William Fell and Mr. William Milne as managing directors." Mrs. Fell died seven years ago. Six sons survive. Mr. Fell was a member of the American Association of Nurserymen, the conventions of which he occasionally attended.

DOLLAR'S WORTH IN EVERY ISSUE.

J. W. TETRICK & SON, Blackwell, Okla., April 6, 1903—"Enclosed find \$1.00 money order for the NATIONAL NURSERYMAN for another year. We find one dollar's worth in every issue. We have had the best trade this spring in our history."

Among Growers and Dealers.

The American Seed Company has been formed at Detroit with a capital stock of \$25,000 by Joseph L. Gillespie, Charles W. Latham, John Binger and Joseph J. Gillespie.

General Elwell S. Otis, of Philippine Islands fame, will be the guest of honor at one of the Arbor Day exercises in Rochester, N. Y., May 8th.

Arthur Van Traa, representing Jacob Smits, of Noorden-Boskoop, Holland, who has been visiting Western nurserymen, called upon Western New York nurseryman during the last week in April. He reports a good trade.

The twenty-eighth annual convention of the California Fruit Growers Association will be held May 5-8 in Los Angeles. Irrigation will be one of the principal topics. A half-day session will be given up to the subject of publicity—advertising California.

C. B. Knickman, of New York, recently with Bobbink & Atkins, is traveling for August Rhotert.

Leon Girod and A. W. McDonald, have incorporated the Washington Nursery Co., of Toppenish, Wash., with a capital stock of \$50,000.

C. R. Burr & Co., Hartford, Conn., have secured 40 acres at South Manchester, planting it to peach and apple, and ornamental shrubs.

The Lightfoot Nursery Company, of Chattanooga, Tenn., has been incorporated by H. Lightfoot, Wm. Shelton, R. S. Walker, M. A. Ivan, Lee Lightfoot and J. H. McLean with a capital stock of \$10,000.

The Iowa Seed Company will build 14 new greenhouses this year.

H. W. Van Der Bom & Co., of Oudenbosch, Holland, is not represented by any one else in this country except McHutchison & Co., 218 Fulton street, New York city, and no one else is authorized to receive orders, etc., for their account. The Van Der Bom Nursery at Oudenbosch, Holland, has no connection with one of similar name at Roosendale, Holland.

The Society of American Florists will hold its annual convention in Milwaukee, August 18th; the Apple Shippers at Niagara Falls, August 5th; the American Pomological Society at Boston, September 10-12.

At the regular meeting of the Southwestern Nurserymen's Association at Oklahoma City, in February, all present reported a large increase in business and a much heavier planting than ever before.

The Southern Nursery Co., Winchester, Tenn., has brought 150 acres of land adjoining their nursery and planted in apple, pear, grafts and cherry seedlings.

J. C. Hale, Winchester, Tenn., is the secretary of the Southern Nurserymen's Association, which will meet at Winchester in August. John C. Miller, Rome, Ga., is the president.

At the annual meeting of the Southern Nursery Co., the following officers were elected: President, N. W. Hale; vice-president, H. N. Camp; secretary and treasurer, E. W. Chattin.

The Central Michigan Nursery Co., Kalamazoo, Mich., has begun the construction of an additional range of 12,000 feet of glass.

Several carloads of American elms were recently shipped from the Peterson Nursery, Chicago, to New York city for planting in the public parks.

The Oregon Nursery Co., Salem, Ore., shipped 40,000 trees to Wenatchee for spring delivery from that point.

Paul Evans, son of J. C. Evans, a well-known member of the Missouri State Horticultural Society, has been appointed Director of the Missouri Fruit Experiment Station at Mountain Grove, in place of Prof. J. T. Stinson, who resigned to accept the position of Superintendent of Pomology in the Louisiana Purchase Exposition.

The firm of A. C. Griesa & Brother, Lawrence, Kan., has been succeeded by A. C. Griesa, who has purchased the interest of the brother. Mr. Griesa is one of the busy nurserymen of the West.

E. O. Graham, Cora M. Graham and J. M. Campbell have incorporated the Graham Nursery Co., at Rochester, N. Y.; with a capital stock of \$10,000.

Governor Smith, of Maryland, has appointed Orlando Harrison, of J. G. Harrison & Sons Nurseries, Berlin, as one of the commissioners of the St. Louis Exposition of 1904.

Long and Short.

Every nurseryman needs a duplicator for copying letters, price lists, etc. Some of the kinds on the market are expensive and their operation is complicated. The Daus "Tip-top" Duplicator is simple, effective and at reasonable cost. There is no mechanism to get out of order, no washing, no press, no printer's ink. It is sent on ten days' trial without deposit by Felix F. Daus, 111 John St., New York.

Largest collection of fruit and ornamental trees, shrubs, roses and hardy plants is offered by Ellwanger & Barry, Rochester, N. Y. They make a special price on American Arbor Vitae in quantity.

The Deming Co., Salem, O., manufacture a superior sprayer for the horticulturist and nurserymen.

Harlan P. Kelsey, Beacon building, Boston, Mass., makes a specialty of hardy native American rhododendrons and azaleas. He offers them at a low rate by the ear load.

Experienced budders are wanted by the Stark Brothers N. & O. Co., Louisiana, Mo.

A. C. Griesa, Lawrence, Kan., has apple seedlings and Japan pear seedlings.

For fall delivery the Southern Nursery Co., Winchester, Tenn., offers well-grown and graded fruit and ornamental stock.

Elmire Sebire, Ussy, France, is represented in America by August Rolker & Sons, 31 Barclay St., New York. French fruit, tree stocks and sundry ornamentals.

IN CANADA.

FONTHILL, Ont., April 21—Morris & Wellington: "The season has been very favorable for digging and packing, which is now well under way, although delayed somewhat by scarcity of men.

"The demand for stock has been very good, and the output larger than usual."

The Lightfoot Nursery Company,

with capital stock of \$10,000, was organized April 1, 1903. This company will succeed H. Lightfoot, who has been in the nursery and plant business for several years. The officers are H. Lightfoot, President and Treasurer; Lee Lightfoot, Vice President; R. S. Walker, Secretary.

The company will make a specialty of growing Peach Trees and Strawberry Plants, of which now there is 700,000 Peach and 5,000,000 Berry Plants growing.

The company has twenty-five shares of the capital stock at \$100 per share for sale. This stock will be sold to get money to finish growing the stock. Anyone wanting to make a profitable investment should correspond at once with

LIGHTFOOT NURSERY CO., Chattanooga, Tenn.



AN IDEAL REST For Nurserymen

Requires space only six feet long and may be hoisted, cushions and all, snug against ceiling when not in use. Carefully made of red duck, reinforced, trimmed with white binding. Ropes, pulleys, etc., same as on first-class yachts.

Price Complete, \$15 00
With Lawn Frame, \$25 00

Vincennes Nurseries

W. C. REED, Proprietor

VINCENNES,

INDIANA

SPECIAL

We are long on the following and will make very low prices to close out all stock in fine condition and can ship quick.

APPLE

3-4 up and 5-8 to 3-4, fine lot Baldwin, Mann, Belleflower, Jannetts, etc.

PEACH

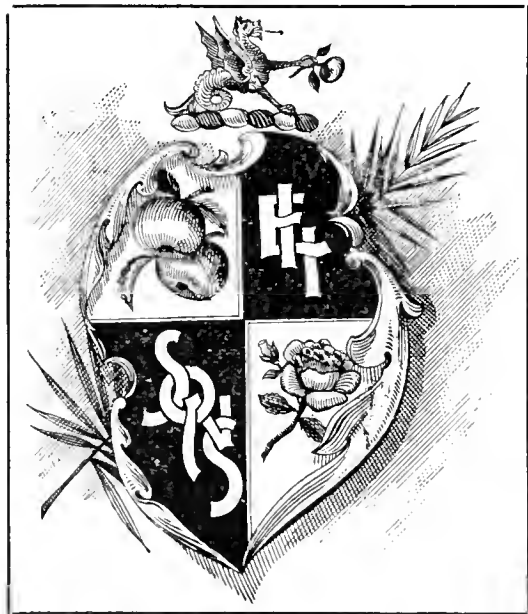
Medium and 3 to 4, 2 to 3 and 1 to 2 feet.

Fine Assortment.

Standard and dwarf pear 3-4 and 5-8.

WRITE QUICK

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

CHOICE STOCK

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES, CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

Pioneer Nurseries Company

BOX 1406,

SALT LAKE CITY, - UTAH.

OFFERS FOR SPRING, 1903, SHIPMENT:

STANDARD APPLES, including BEN DAVIS, GANO, Etc.

STANDARD PEARS, including a fine lot of BARTLETT. We are also headquarters for the ROSSNEY PEAR, introduced by us, the best of its season.

PLUMS and PRUNES, both on plum and peach stocks. Also a large assortment of GENERAL NURSERY STOCK.

HILL'S EVERGREEN NURSERIES

intend to keep at the head for hardy, nursery grown trees for the nursery trade. A general assortment of seedling varieties, all sizes. A large supply of Douglas, Hemlock, and White Spruces. A grand lot of the famous Rocky Mountain Blue Spruce and Concolors. White, Scotch, Austrian and Dwarf Mountain Pines. Arborvites, etc. Over two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

RAFFIA

Best grades of Madagascar Raffia for Nurserymen.

Orders for bale (225lbs.), or more from stock or for direct import. Write for prices.

McHUTCHISON & CO., 18 Fulton St., NEW YORK.

New Haven Nurseries

NEW HAVEN, MO.

—SURPLUS—
APPLE, PEACH
PEAR, PLUM

Strictly high grade. Over 200,000 Elberta. Correspondence and personal inspection of stock is invited. Location, 67 miles west of St. Louis, on main line of the Mo. Pac. R. R. Missouri River uplands.

New Haven Nurseries

NEW HAVEN, MO.

When writing to Advertisers mention The National Nurseryman.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of
**Fruit and
Ornamental**
stock for fall
trade.

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubbery
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

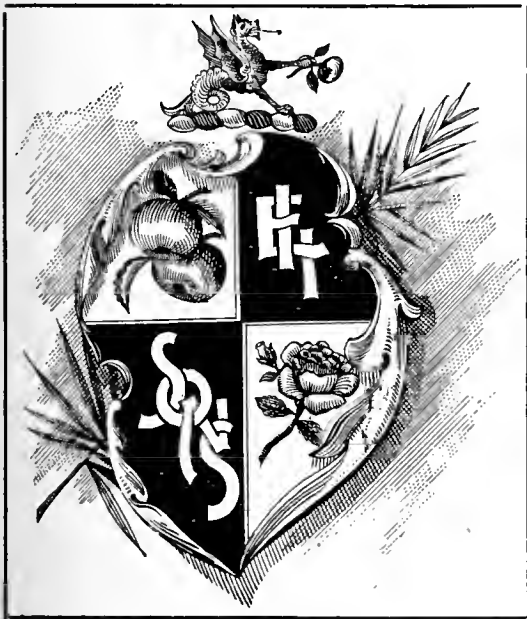
THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

Office, Cutler Building

Nurseries at Brighton

I. E. Ilgenfritz' Sons



THE —
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

CHOICE STOCK

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

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STANDARD PEARS, including a fine lot of BART-
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introduced by us, the best of its season.

PLUMS and PRUNES, both on plum and peach stocks.
Also a large assortment of **GENERAL NURSERY
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HILL'S EVERGREEN NURSERIES

intend to keep at the head for hardy, nursery grown trees for the nur-
sery trade. A general assortment of seedling varieties, all sizes. A
large supply of Douglas, Hemlock, and White Spruces. A grand lot
of the famous Rocky Mountain Blue Spruce and Concolor. White,
Scotch, Austrian and Dwarf Mountain Pines. Arborvites, etc. Over
two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

Apple, Pear and Forest Tree Seedlings.

Apple and Pear Grafts and Apple Scions.

50,000 Apple Trees, 2 years, fine.

Also Many Other Items for the Trade.

J. A. GAGE, BEATRICE, NEB.

New Haven Nurseries

NEW HAVEN, MO.

—SURPLUS—

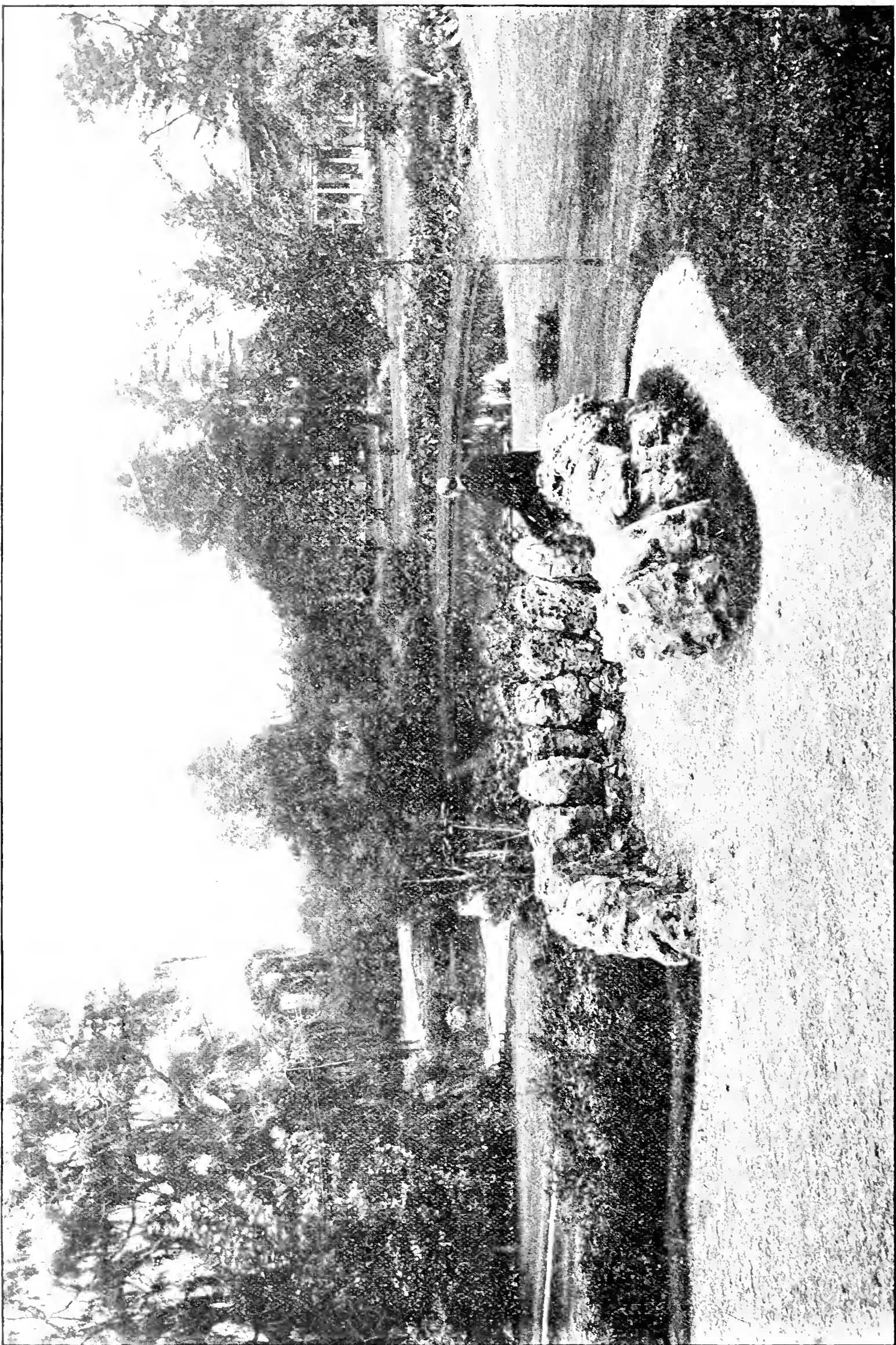
**APPLE, PEACH
PEAR, PLUM**

Strictly high grade. Over 200,000 Elberta
Correspondence and personal inspection of
stock is invited. Location, 67 miles west of
St. Louis, on main line of the Mo. Pac. R. R.
Missouri River uplands.

New Haven Nurseries

NEW HAVEN, MO.

When writing to Advertisers mention The National Nurseryman.



SCENE IN THE PARK SURROUNDING THE OFFICE OF THE CONTINENTAL NURSERIES, BROWN BROTHERS' COMPANY, BRIGHTON, N. Y.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"Future orcharding on the western prairie depends upon hardy roots."—DEWAIN COOK.

Vol. XI.

ROCHESTER, N. Y., JUNE, 1903.

No. 6.

THE CONTINENTAL NURSERIES.

**Extensive Plant of Brown Brothers Co., Rochester, N. Y.—Seventeen Acres of Park Surround the Colonial Offices—
Large Storage Cellars and Packing Houses—
Seventy-two Office Employees.**

The views that have been appearing as frontispieces in the NATIONAL NURSERYMAN were taken in the park surrounding the offices of Brown Brothers Company, Continental Nurseries, of Rochester, N. Y. The grounds occupy a high situation adjoining Brighton village, a suburb of Rochester, and comprising about 106 acres, of which 17 acres are devoted exclusively to park purposes. In these days of commercialism when the average nurseryman devotes his land exclusively to the propagation of trees and plants, it is refreshing to come in contact with one who puts into effect the theory advanced by nurserymen for the adornment of one's home grounds.

The park surrounding the offices of the Brown Brothers Company is most attractively laid out and contains a choice collection of hardy flowering shrubs, shade trees, evergreens, perennials, etc., that can be successfully grown in this locality. This park is personally looked after by Mr. Charles J. Brown, the president of the company, who perhaps is as great a lover of the beautiful in nature as the most liberal patron of his company, and who thoroughly believes in the fact that the exterior requires adornment as much as the interior. One can see in this park the rarest kinds of shrubs and trees grown in this country. The park has been planted now some three years, and the views show the effect of judicious planting most satisfactorily.

The remainder of the land is devoted exclusively to nursery purposes, it being the object of the company to grow here a limited assortment of a large number of different varieties so as to have them handy during the packing season. The main growings of the company are in its nurseries at Irondequoit and Penfield, both within four or five miles of their packing cellars. The company here grow perhaps as large an assortment in as large quantities as any concern in the country.

On the Brighton grounds is one of the largest storage cellars in the country, constructed of stone, 314 feet long and 80 feet wide, and with an average height of 18 feet. Its walls are two feet thick on a stone foundation, four feet below the surface of the ground and four feet thick. There are both inner and outer walls by which method of construction an air space is formed all round the building. The roof of the cellar is supported by fifty-six oak posts which rest upon brick and stone piers. An abundance of light has been provided by ten box ventilators each about 6 feet by 10 feet. So perfectly frost proof is this storage cellar and so properly ventilated that stock

is perfectly free during the severest weather from any frost, and from the same cause there has never been discovered any trace of mildew on the stock in the cellar. Contiguous to this cellar are two large packing houses, work shops, etc., making it probably one of the most complete plants in the country for handling stock either at wholesale or retail.

The office is located to the right of the park grounds at the point of entry, and is a colonial structure 100 feet by 30 feet, divided into departments by glass partitions enabling a view of the entire office from either end.

This company is one of the most progressive in the country, and the annual increase of its trade has been most gratifying. The packing of the company started about the 22nd of last January, and at this writing, May 2nd, is still continuing. It requires 72 office employees to attend to the details of the correspondence, etc.

The writer would suggest that any brother nurseryman visiting here call at the grounds of Brown Brothers Company, as he believes it will be an object lesson, both as to the manner in which the average nurseryman should surround his offices with all that is beautiful in nature, as well as to note the careful manner in which the nursery itself should be kept up.

MINNESOTA'S NURSERY LAW.

The legislature of Minnesota at the session of 1903 passed a bill "to prevent the introduction and spread of injurious insects and dangerous plant diseases in the State of Minnesota." The law constitutes the entomologist of the state experiment station as the state entomologist charged with the execution of the new law. He may appoint qualified assistants. The law provides:

He shall, by himself or his assistants, between the first day of May and the fifteenth day of September, in each year, when requested by the owner or agent, or when he has reasonable ground to believe that any injurious insect pests or dangerous and contagious plant disease exist, carefully examine any nursery, fruit farm or other place where trees or plants are grown for sale, and if found apparently free from any injurious insect pests or dangerous or contagious plant diseases, he shall issue his certificate stating the facts (good for one year unless revoked) and shall collect therefor a fee of five dollars (\$5.00) per day and expenses.

It is provided that quarantine regulations may be established in any nursery, orchard or garden and treatment of trees or plants may be prescribed or the trees and plants may be burned, the owner to pay the cost in all cases.

A certificate on stock shipped into the state shall be regarded as prima facie evidence of the facts therein stated, but the authorities may inspect such stock at any time and act according to the above provisions of the law, charging the cost to the owner or the person in charge of the stock. It is unlawful to send into the state any nursery stock not accompanied by a certificate. The law is in effect from and after June 1, 1903.

Program for the Convention at Detroit

Arrangements in Detail for the Twenty-Eighth Annual Meeting of the American Association of Nurserymen—Three Days' Session at the Hotel Cadillac— Talks on Practical Topics Followed by Prepared Discussion —Question Box a Prominent Feature—Annual Meetings of Protective Associations.

We present herewith the complete program for the twenty-eighth annual convention of the American Association of Nurserymen, at the Hotel Cadillac, Detroit, Mich., June 10th, 11th and 12th.

The meetings of the Association will be held in the Banqueting Hall of the Hotel Cadillac on the parlor floor. The exhibition of articles of interest to nurserymen will be in the Roman room, which adjoins the meeting room.

The exhibition room will be closed during the meetings of the Association.

PROGRAM

Wednesday Morning, June 10, 1903, 10 o'clock

Calling to Order - - - - - President C. A. Ilgenfritz
Welcome to Detroit - - - - - Mayer William C. Maybury
Response - - - - - Mr. George A. Sweet
President's Address
Discussion of President's Address
Reports of Secretary and Treasurer
"The Nurseryman as the Editor Sees Him"
H. W. Collingwood, Editor RURAL NEW YORKER
"Publicity for Nurserymen" - - - - - Frank B. White, Chicago, Ill.
Discussion by Ralph T. Olcott, J. M. Irvine, L. H. Bailey,
J. Horace McFarland, H. W. Collingwood
Nominations for State Vice-Presidents

Wednesday Afternoon, 2 o'clock

Election of State Vice-Presidents
Reports of Committees—
Legislation - - - - - C. L. Watrous, Chairman
Tariff - - - - - Irving Rouse, Chairman
Transportation - - - - - A. L. Brooke, Chairman
"The Agency Business—Its Importance to the Nursery Interests, and the Dangers that Beset it"
Howard A. Chase, Philadelphia, Pa.
Discussion by C. L. Watrous, Joseph Davis.
"What the Louisiana Purchase Exposition Offers to Nurserymen" - - - - - Frederic W. Taylor, Chief of Dept. of Horticulture

Thursday Morning, June 11, 1903, 9 o'clock

Election of Officers
Selection of place of meeting for next Convention
Appointment of Committees on Exhibits and Resolutions
"The Whole Question of Varieties" - - - - - Prof. L. H. Bailey, Ithaca, N. Y.
"Insurance for Nurserymen" - - - - - William Pitkin, Rochester, N. Y.
Discussion by George C. Perkins, E. Albertson
"The Nurseryman's Work in Texas" - - - - - E. W. Kirkpatrick, McKinney, Texas

Thursday Afternoon, 2 o'clock

"The Relation between the Nurseryman and His Customers" - - - - - J. H. Hale, So. Glastonbury, Conn.
Discussion by Howard A. Chase, H. W. Collingwood, J. M. Irvine
"Importance of Ornamental Stock to the Nurseryman"
W. C. Barry, Rochester, N. Y.
"Spraying and Fumigation for Nurserymen Up-to-Date"
Prof. John B. Smith,
of the New Jersey State Experiment Station
Answers to questions deposited in Question Box

Friday Morning, June 12, 9 o'clock

"The Cost of a Tree" - - - - - George A. Sweet, Dansville, N. Y.
Discussion by Herbert S. Chase, Orlando Harrison,
W. F. Heikes, William Pitkin
"The Nursery Interests of the South" - - - - - G. L. Taber, Glen St. Mary, Fla.
Discussion by R. C. Berckmans, N. W. Hale, W. F. Heikes
Report of Committee on Exhibits and Resolutions
Announcement of committees
Adjournment

Nurserymen are urgently requested to use the Question Box for subjects of interest. It will close Wednesday afternoon, in order that proper answers may be prepared.

Protective Association Meetings

The annual meeting of the American Nurserymen's Protective Association will be held on Wednesday, June 10th, 1903, at 8 P. M., in the Hotel Cadillac. The announcement of the room in which the meeting will be held will be made in due time.
THOMAS B. MEEHAN, Secretary.

The annual meeting of the Nurserymen's Mutual Protective Association will be held Wednesday evening, June 10th, in Hotel Cadillac, at 7:30 o'clock.

The American Pæony Society will meet Thursday evening.

The officers of the American Association and the standing committees are published regularly on the editorial page of the NATIONAL NURSERYMAN.

Hotel and Railroad Plans

One hundred certificates are required to make the concession in railroad rates effective. Do not fail, therefore, to get a certificate from your ticket agent for the trip going.

This notice is of the utmost importance. Get a certificate.

Swart Bros., proprietors of Hotel Cadillac, in submitting their proposition, wrote as follows:

We will make your association a rate of \$2.50 per day each person, where rooms on the court-side of the house are occupied by two or more persons, two persons in a bed; outside rooms without bath, \$3.00, \$3.50 and \$4.00 per day, each person; rooms with bath, \$3.50, \$4.00, \$4.50 and \$5.00 per day, each person—American plan.

Provided your association selects Hotel Cadillac as official headquarters, you may depend upon us to room every member as comfortably as possible and to do our very best to give each one the rate he selects, or as near that rate as possible. We do not wish in any way to make any statements that we cannot fulfill to the letter. We might state further, that in all rooms, except where the \$2.50 rate prevails, each person will be given a bed to himself if desired.

TEXAS NURSERYMEN'S ASSOCIATION.

The third annual meeting of the Texas Nurserymen's Association will be held at College Station, Tex., July 7-10, inclusive. The officers of the association are: President, E. W. Kirkpatrick; vice-president, B. L. Adams; secretary, J. S. Kerr. Following is the program:

Opening Address—President E. W. Kirkpatrick.

Commercial Peaches, Best Varieties—Col. Bonner.

Best Methods of Growing Open Ground Roses—J. B. Baker, Jno. F. Sneed.

The Wholesale Nursery Business for the Southwest—C. C. Mayhew, C. G. Monzingo.

Can There Be Too Many Elberta Peaches Grown—J. A. Taylor, C. P. Orr.

The Relation of the Nurseryman to Commercial Orchardling—Col. A. G. Pickett, F. K. McGinnis.

A Scale, or Nursery and Orchard Inspection Law for Texas, State and National. Reviewing those pending—Prof. F. W. Mally, B. L. Adams.

Nursery Office Methods—Misses Mayhew, Holsapple and Kerr.

Trade Marking for the Protection of the Introducer of New Varieties of Trees and Plants—F. T. Ramsey, Wm. B. Munson, Jr.

Improvement of Fruit Trees by Bud Selection, or Propagation from Bearing Trees vs. Nursery Rows.—A. S. Bassett, J. S. Kerr.

Crown Gall and "Whiskers" on Young Apple Trees, Causes and Remedies—A. K. Clingman, J. W. Higginbotham.

Best Method of Propagating Japan Persimmons and Nut Trees—W. A. Yates, Jno. L. Foster.

Question Box Opened.

Reports of Standing Committees.

Re-election of Officers for the Ensuing Year.

The co-operative labors and the resulting benefits and privileges of the Texas Nurserymen's Association are open and cordially tendered to all nurserymen of Texas and the Southwest. Send annual membership fee, \$1.00, to Jno. S. Kerr, Sec'y-Treas., Sherman, Texas.

RICHMOND, VA., May 2, 1903.—Knoxville Nursery Co., K. Morton, Mgr.: "I inclose \$1. Please renew my subscription to the NATIONAL NURSERYMAN. Your journal is one of the necessary tools of our business which cannot be omitted. Wish you increased subscription and everlasting success."

BEAUTY OF DETROIT.

Her Parks and Boulevards Form the Chief of Many Attractive Features—A Credit to a Liberal Policy of Improvement—Nurserymen Will be Especially Interested.

There will be practically no limit to the opportunities to visit places of interest in and about Detroit, save that of time. The beauty of the city is far-famed. Perhaps no single feature will be of greater interest to the nurserymen than the parks and boulevards. Our space at this time permits only a reference to the great system of which residents of Detroit are justly proud.

The annual report of Commissioner R. E. Bolger, including that of Supt. R. J. Coryell, shows that the twenty-eight parks of Detroit contain 926 acres and that there are eleven miles of boulevard comprising an acreage of 212. The largest of the parks, Belle Isle, an island in the Detroit river, contains 707 acres. Palmer park, on Woodward avenue, contains 140 acres, and Clark park 24 acres. The annual report is profusely illustrated with half-tone engravings of the beautiful and interesting scenes in the parks. A park nursery has become thoroughly established. It has a frost-proof storage pit. Many trees and shrubs have been gathered from the woods and fields adjoining and placed in nursery rows. The green-house department has produced plants to the value of \$18,000 which have been used to decorate the parks and boulevards. An arboretum, aquarium and horticultural building and a well-equipped zoological department are features of the park system. Band concerts are provided, as are also ice water drinking fountains, bath houses and park phaetons. The popularity of the parks is shown by the fact that for the fiscal year ended June, 1901, the phaeton registers showed that 231,774 passengers were carried across Belle Isle bridge, and the receipts for phaeton service amounted to \$10,071.84. Spanish war trophies decorate the parks and there are lakes and picnic pavilions. The Merrill fountain, on opera house lawn, has recently been completed.

It is probable that a street car ride about the city and to the private grounds of Mr. Berry, and a boat ride to Belle Isle and a drive through the island will be provided for the nurserymen and their wives.

NEW HAMPSHIRE LAW.

The New Hampshire legislature has passed a bill, now a law, containing this provision:

All nursery stock shipped into this state from any other state, country or province shall bear on each box or package an unexpired certificate that the contents of said box or package have been inspected by a duly authorized inspecting officer, and that said contents appear to be free from all dangerous insects or diseases. In case nursery stock is brought within the state without such certificate the consignee shall return it to the consignor at the expense of the latter, or shall call the state nursery inspector to inspect the same; provided, however, that any package or box bearing a certificate of fumigation which meets the requirements specified in section four of this act may be accepted as though bearing a proper certificate of inspection.

PERRY, O., May 2, 1903.—Western Reserve Nurseries, The L. Green & Son Co.: "Please find inclosed \$1, renewal of our subscription to the NURSERYMAN. We do not want to miss a single number."

OUTDOOR ART.

Associations Formed for Its Promotion—Annual Convention of American Association to be Held in Buffalo in July—Nurserymen as Members—Combination of Interests Suggested—Professor Bailey's Plea for a Broader View Emphasized.

Within the last decade interest in outdoor art has increased to such an extent that associations have been formed on all sides for its promotion. One of the most active of these is the American Park and Outdoor Art Association, the seventh annual meeting of which will be held in Buffalo, July 7-9, 1903. The secretary of the association, Charles Mulford Robinson, Rochester, N. Y., has issued a preliminary program which provides for instructive and entertaining sessions in Buffalo and a trip to Niagara Falls, with opportunity to attend the convention of the American League for Civic Improvement at Chautauqua the following week. Professor L. H. Bailey is to give an address on "The Forward Movement in Outdoor Art," and Mrs. Frances Copley Seavey, of Chicago, will talk on "The Possibilities of the Home Grounds."

The president of the association is Clinton Rogers Woodruff, of Philadelphia, and among the active workers are several whose names are familiar to nurserymen: Frederick W. Kelsey, New York; Frederick Law Olmsted, Jr., John C. Olmsted, Warren H. Manning, Brookline, Mass.; Charles W. Garfield, Grand Rapids, Mich.; C. M. Loring, Minneapolis. Among the members are the following: George Ellwanger, Harlan P. Kelsey, J. W. Manning, J. Horace McFarland, Thomas B. Meehan, J. M. Underwood, J. C. Vaughan, Linus Woolverton.

Aim of the Association.

The sixth annual meeting was held in Boston, August 5-7, 1902. The retiring secretary, Warren H. Manning at that time presented the aims of the association succinctly as follows:

This association was organized in 1896 at Louisville, Ky., on the broad lines suggested in a letter from the late Charles Elliott, by men and women representing park and outdoor art interests.

The park interests are represented by members of the boards of park commissioners of leading American cities, and by individuals and organizations through whose efforts public reservations are being established in towns and country districts.

The broader term of "Outdoor Art," represents all endeavor that is directed toward the preservation and improvement of landscapes, whether they be a broad sweep of hill and vale, in which a city is only an incident, or its many details, such as woods, waters, trees, streets, buildings, or gardens.

To give such endeavor the most successful issue, they should have the benefit of many organizations working directly for the main objects, they should be able to enlist the co-operation of other associations having similar purposes, the assistance of professional men, and the work of all individuals so far as it materially affects the appearance of landscape. They should have the assistance of the landscape designer, by whatever name he is known, whose work is the making of landscapes; the engineer, who may greatly modify a landscape for good or bad; the architect, whose structures form the most important incidents in urban and many suburban landscapes; the farmer, who has modified our American landscapes more profoundly than any other agency; the forester, whose work has to do with one of the most important elements of a great landscape—its forests; the irrigator, who will make green farms from arid wastes; and above all, the home-maker, who, aided and stimulated by the work of organization, can do more to make the daily outdoor life and surroundings of all the people agreeable and attractive than any other agency.

Heretofore all agencies working for civic betterment, for the creation and preservation of attractive landscapes, and the improvement of the exterior of the home and its surroundings, have each been acting with so little knowledge of what the others were doing, that there has been much wasted effort and unnecessary expenditure of money and time in the duplication of work, and in attendance upon conventions in widely separated places during the same year.

Combination of Interests.

The following national associations, all of which have purposes, in many respects identical, have been requested to send representatives to this meeting to join in a conference regarding the advisability of establishing a central committee and a general secretary, who can give all his time to the work, to serve as a clearing-house for ideas, and through which any important movement could be brought to the attention of each society; also to consider the holding of meetings in the same place at the same time, or in other ways to avoid unnecessary labor and expense:

National Municipal League.
American Society of Municipal Improvements.
American League for Civic Improvement.
American Park and Outdoor Art Association.
League for Social Service.
Architectural League of America.
American Institute of Architects.
Society for the Protection of Native Plants.
American Scenic and Historic Preservation Society.
League of American Municipalities.
American Society of Landscape Architects.
National Sculpture Society.

It will be seen that the work of this association bears directly upon the interests of the nursery trade, for it is evident that commercial aids will be needed to produce artistic results.

Broader Views for Nurserymen.

Professor Bailey, in his address before the American Association of Nurserymen in Milwaukee last year, said: "I believe we must come into a larger field in our discussions." He urged the nurserymen to take greater interest in the improvement of school grounds and in conclusion he said: "If I have any mission in life more than another, it is the spiritualization of agriculture."

The keynote of the convention of the American Park and Outdoor Art Association last year was the address of President Charles W. Eliot of Harvard University, "Popular Utilization of Public Reservations." The address is too long for reproduction in our columns, but nurserymen would be inspired to a realization of their responsibilities and their opportunities if they would hear all the addresses delivered at these conventions, and meet the earnest men and women who there assemble.

We congratulate the members of the American Association of Nurserymen upon the prospects of a profitable convention in Detroit when opportunity will be given for broadening the view and enlarging plans of operation.

GATEWAY NURSERY COMPANY.

On May 1st the Gateway Nursery Co., incorporated with a capital stock of \$50,000, succeeded the Fairmont Nurseries at Le Mars, Ia. The directors of the company are Pierce Bechtle, Le Mars, manager; C. A. Stils, Cherokee, superintendent of field work; W. L. Bechtle, O. M. Bechtle and G. W. Bolser, of Le Mars. The territory to be covered will include Iowa, Northern Nebraska, North Dakota, South Dakota, Southern Wisconsin, Minnesota and Northern Illinois.

JACK FROST IN DIXIE.

Low Temperature on May 1st Nipped Peach and Plum Buds—Large Blocks of Shade Trees Severely Damaged—All Grape Vines Suffered—Excesses of Rain, Sudden Drouth, Then a Freeze—Nursery Trade Promising.

SHERMAN, Texas, May 12.—John S. Kerr, Sherman Commercial Nurseries: "In the Southwest the unexpected frequently happens in climatic conditions; but it is very seldom, if ever, we have been visited by heavy frosts during May. In the fifties, old Texans say, the wheat was killed just in the act of heading, during May, and it came out and made a fair crop after that. On the morning of May 1st, this year, we had a white frost, extending down as far as Central Texas, about Waco. In the northern tier of counties the damage has been considerable on the fruit, vegetables, cotton and corn, especially on low ground. Small grain was not hurt.

"The nurserymen have come in for a considerable share of the loss. Peach and plum buds, being about one to three feet high, on the low grounds were nipped, so that most of them will have to be cut back to a lower limb. Apple and pear trees were not so much hurt. Large blocks of shade trees of Sycamore, Hackberry, Catalpa, Black Locust and Umbrella China were severely damaged, many blocks having to be cut back to the ground, while others are putting out new growth at the base of the limbs. All grape vines, both in nursery and vineyard, have suffered severely.

"It might be said the Southwest has suffered three calamities, first the excesses of rain throughout the winter and spring, second, the sudden drouth, which set in the first of April and continue till May 11. This renders the ground hard and cloddy. And now, the freeze, which is made more damaging for the want of rain to cause vegetation to rally. Yet, if we have rain soon, we may expect fine crops and good times, though much delayed at this writing.

"Nurserymen of Texas and the Southwest have a record-breaker in the way of trade the past season, which closed here April 1st. The stock on hand was heavy, and the demand far exceeded the supply, especially in Elberta peach trees. Many car loads were shipped in from distant points, and still many contracts had to be defaulted.

"The spirit of general orchard planting has prevailed and has not been satisfied. Commercial orchard companies are the rule, and most every farmer or owner of land in the fruit sections has an orchard.

"There is a large stock of most lines in sight for fall of 1903. Seed has come up reasonably well. Grafts and cuttings a fair

stand. Good rains on May 11th will enable frosted stock of May 1st to recover rapidly.

"The apple fruit crop promises well. Other lines of fruit rather poor, owing to heavy crops past two years and the heavy frost May 1st."

H. S. TAYLOR.

We present herewith a likeness of Hinman S. Taylor, who was born in Rochester, N. Y., in 1867. He received his early education in the public schools of that city. For a number of years he was engaged in conducting commercial schools in Pennsylvania and Ohio.

Returning to Rochester in 1888, he became interested in the nursery business. With his brother, Fred. V. Taylor, a partnership under the name of H. S. Taylor & Co. was formed.

A prosperous business was built up resulting in the employment of a large number of salesmen on the road and the shipment of the stock to all sections. The offices are in the Cutler building, Rochester, and are fully equipped for handling a large business.

Mr. Taylor is also president of the H. S. Taylor Nursery Co., the other officers of which are: J. F. Norris, vice-president; F. V. Taylor, secretary. This company is engaged in growing extensively a general line of nursery stock and conducting a wholesale business, furnishing stock and packing for other nursery concerns and dealers. The nurseries are at Brighton, N. Y., and comprise upwards of 100 acres. The members of the company are pleased at all times to conduct friends and customers about the nurseries.

The subject of this sketch is a member of the American Association of Nurserymen, the Eastern Nurserymen's Association and the Western New York Horticultural Society. In fraternal circles he is

a member of Yonnondio Lodge, 163, F. & A. M., Rochester City Lodge, K. of P., and Rochester Company, U. R. K. of P.

Mr. Taylor has taken an active interest in the nursery business and has gained a thorough knowledge of the details pertaining to the growing, packing, handling and shipping of all classes of nursery stock. He was married in 1892.

SHORTAGE IN IMPORTED STOCKS.

August Röhlker & Sons, New York, last month received a cablegram from Elmiere Sebire, of Ussy, France, to the effect that crops will be short in Mahaleb, Mazzard cherry and Myrobalan plum.

DANSVILLE, N. Y., May 1, 1903.—George A. Sweet: "Enclosed find \$1 for renewal. We find your journal very interesting and instructive and do not see how any nurseryman could do without it."



H. S. TAYLOR.

The National Nurseryman.

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VICE-PRESIDENT AND EDITOR - - - RALPH T. OLCOTT
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION OF NURSEYMEN.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Payment in advance required for foreign advertisements. Drafts on New York or postal orders, instead of checks, are requested.

Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., JUNE, 1903.

AMERICAN ASSOCIATION OF NURSEYMEN.

President, Charles A. Ilgenfritz, Monroe, Mich.; vice-president, D. S. Lake, Shenandoah, Ia.; secretary, George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.
Executive Committee—William Pitkin, Rochester, N. Y.; N. W. Hale, Knoxville, Tenn.; Peter Youngers, Geneva, Neb.
Committee on Transportation—President Ilgenfritz, ex-officio; A. L. Brooke, N. Topeka, Kan.; Henry Chase, Huntsville, Ala.; E. Albertson, Bridgeport, Ind.; Howard Davis, Baltimore, Md.
Committee on Tariff—Irving Rouse, Rochester, N. Y.; Thomas B. Meehan, Germantown, Pa.; J. H. Dayton, Painesville, O.
Committee on Legislation—C. L. Watrous, Des Moines, Ia.; Silas Wilson, Atlantic, Ia.; Charles J. Brown, Rochester, N. Y.; George A. Sweet, Dansville, N. Y.; Robert C. Berckmans, Augusta, Ga.
Committee on Programme—George C. Seager, Rochester, N. Y.; Wilson J. Peters, Troy, Ohio; J. Horace McFarland, Harrisburg, Pa.
Committee on Publicity—C. M. Stark, Louisiana, Mo.; Ralph T. Olcott, Rochester, N. Y.; F. H. Stannard, Ottawa, Kan.
Annual convention for 1903—At Detroit, Mich., June 10-12.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; secretary, Thomas B. Meehan, Dreshertown, Pa. Meets annually in June.
NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, L. R. Bryant, Princeton, Ill. Meets annually in June.
EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, A. L. Brooke, N. Topeka, Kan.; secretary, J. A. Taylor, Wynnewood, Ind. Terr. Meets in July and December at Kansas City, Mo.
SOUTHERN NURSERYMEN'S ASSOCIATION—President, John C. Miller, Rome, Ga.; secretary, J. C. Hale, Winchester, Tenn. Meets at Winchester, Tenn., in August, 1903.
SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
TEXAS NURSERYMEN'S ASSOCIATION—President, E. W. Kirkpatrick, Sherman, Tex.; secretary, John S. Kerr, Sherman, Tex.
PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, M. McDonald, Salem, Ore.; secretary-treasurer, A. Brownell, Albany, Ore. Organized at Portland, Ore., January, 1903.

CONVENTION TOPICS.

We present in another column the complete program for the Detroit convention of the American Association. There is every reason to believe that the coming convention will be one of the most profitable in the history of the organization.

The prospect is especially pleasing to us, for we have persistently argued that these annual gatherings afford opportunity for mutual gain on the part of the members that should not be overlooked. There has been too much of perfunctory attendance at a convention that often has seemed to have been held mainly because it had been customary to meet annually in June.

There need be no apprehension that there will not be the usual time for enjoyment of both the social and the business features of the convention. Under the able direction of President Ilgenfritz the proceedings as outlined in the program should move briskly, and it is only necessary for the members to assist by prompt and full attendance at the sessions in order to insure the successful occasion that all loyal members of the Association anticipate.

The topics that will come up for discussion at the convention may be summarized as follows:

Legislation.	Fumigation.
Tariff.	Cost of a Tree.
Transportation.	Customs Decisions.
Agency Business.	Packing Houses.
St. Louis Exposition.	Strawberry Culture.
Varieties.	Publicity.
Insurance.	Condition of Trade.
Ornamental Stock.	Prices of Stock.
Spraying.	Apple Consumer's League.
Southern Interests.	Packing for Shipment.

These topics will suggest others and it is expected that the question box will be a fruitful source of discussion.

THE AMERICAN ASSOCIATION.

In his preliminary announcement for the convention of the American Association of Nurserymen at Detroit this year, Secretary Seager calls attention to the fact that there were about four hundred nurserymen who qualified as members of the Association last year by the payment of the regular fee of \$2.00. Unlike the four hundred of New York society no notions of class or cast limit the membership of this Association, and the secretary truly remarks that inasmuch as a nurseryman or one engaged in an allied industry may become a member, there should be enough wide-awake, progressive, aggressive and public-spirited men among the nurserymen of this great country to swell the membership to at least one thousand.

This is a subject, it seems to us, that might well be taken up at the conventions of the Association. Perhaps there are measures looking toward an increase in the membership of the Association that have not yet been tried. Certain it is that a membership of 400 is much below the figure that should characterize the national organization of nurserymen.

We believe that the one thing above all others that will increase and maintain the membership of the American Association is careful attention to the business of the annual conventions, both as to preparations for a program and as to hearty co-operation, on the part of all the members, with the officers, in an endeavor to make the proceedings so valuable that nur-

serymen cannot afford to miss the conventions. There is every prospect that the proceedings of the Detroit convention, under the direction of President Ilgenfritz, will be of this nature. The members are so scattered during the year that it seems an opportunity lost when, upon the occasion of the annual reunion, there is not much of practical value as the result of business discussion as well as a renewal of acquaintance. And this discussion should be in open convention for the benefit of all. Upon the program committee, the president of the Association and the support of the members depends the success of the annual gatherings. If those who are asked to aid in the discussions would respond with the enthusiasm that the officers and committee are expected to display, the work of preparation for and conduct of the conventions would be materially lightened. Let us all have pride in the National Association and in the work that it does and may do.

THE QUESTION BOX.

Four years ago, in the March, 1899, issue of the NATIONAL NURSERYMAN we said editorially :

It is suggested that, in the preparation of the program for the June convention, the papers to be read deal with topics of paramount interest to the trade generally; that they be not confined to conditions which can interest but a few of the members, and that they be as brief as possible, so that as many topics as the length of the sessions will permit may be touched upon; that the members discussing the papers be limited as to time of speaking and that a question box be provided and freely used. It was upon such lines that the recent annual meeting of the Western New York Horticultural Society was conducted, and it was unanimously agreed by the 600 in attendance that the meeting teemed with valuable information. Pencils flew over note books throughout the hall in efforts to jot down what overtaxed minds were endeavoring to retain.

There are veterans of wide experience and young men with new ideas among the members of the American Association of Nurserymen who can exchange thoughts to the great advantage of all, under skillful direction. There are topics which are usually discussed in the hotel lobbies at the nurserymen's conventions that would make the sessions spicy if they were reserved for or repeated there. The chances are ten to one that you will get more than you will give away. Many questions occur to members long in advance of the convention which might be written now and gathered later in the question box—questions relating to the practical work of the nurseryman and likely to be answered by experts in such a gathering.

Our suggestion of the value of a question box was heartily endorsed by President A. L. Brooke at that time, and in the succeeding issue of this journal we published a set of questions upon practical topics. At the convention in Chicago that year the question box caused the first and only discussion recorded in the proceedings. At the convention of 1900, under President Wilson J. Peters, the question box was opened several times with lively results. At the Milwaukee convention last year a number of questions were submitted, but owing to lack of time it was decided to have the questions and answers published in the NATIONAL NURSERYMAN. This was done; but, of course, the effect of valuable discussion during the convention was lost.

It is hoped that at Detroit this month the members of the Association will feel free to ask questions. This is an opportunity for all to take part in the proceedings. The timid ones may at least ask questions by writing them out and handing them to the secretary. Experts in various lines will be there to answer when the questions are read.

Among Growers and Dealers.

A pecan nursery has been established at Hollandale, Miss.

Four acres of roses, 50,000 plants, have been set out at the St. Louis Exposition grounds.

McKay Brothers have purchased the interests of Riley & McKay at Waterloo, Wis.

F. T. Rann y, Austin, Texas, reports: "Finest season on nursery stock we have had in many years."

Prof. C. S. Sargent, of the Arnold Arboretum, Boston, will start this month for Siberia to study tree life there.

The Missoula Nursery Co., Missoula, Mont., furnished 35,000 trees for planting in Yellowstone Park this spring.

The Minnesota legislature has increased its annual appropriation to the Minnesota Horticultural Society to \$2,000.

The Peach Grower, published at Atlanta, Ga., says that the Georgia crop of peaches will not be less than 1,000 carloads.

The shipping quarters of the Grand View Nursery Co., Des Moines, Ia., were destroyed by fire May 7th. Loss \$1,000.

P. J. Berckmans, Augusta, Ga., was in New York last month. Edgar Sanders, Chicago, is recovering from a severe illness.

The California Nursery Co., displayed a fine collection of shrubs at the spring exhibition of the Pacific Coast Horticultural Society.

At the sixteenth annual meeting of the Florida Horticultural Society at Miami, May 5-7, George L. Taber, Glen St. Mary, was elected president.

C. M. Stark and family sailed on May 8th for an extended European trip. The leading nurseries and horticultural establishments of Europe will be visited.

The Knoxville Nursery Co., Knoxville, Tenn., of which N. W. Hale is president, has a branch office at Richmond, Va., under the management of K. Morton.

On the nursery grounds of the Lightfoot Nursery Co., near Cleveland, Tenn., is a spring from which 30 acres of plants and trees are being irrigated this summer.

The Raton Greenhouse and Nursery Co., at Raton, N. M., has been incorporated by Charles Sandusky, James S. Bowdry and Thomas D. Leib, with a capital stock of \$50,000.

The summer meeting of the Missouri State Horticultural Society will be held at Pertle Springs, Mo., June 3-5. The forty-sixth annual meeting will be held at Columbia, Dec. 1-3.

Domoto Brothers, proprietors of the Japanese Nursery, Oakland, Cal., have purchased 40 acres adjoining their nursery and intend to construct greenhouses to the extent of 60,000 feet, for roses.

Leon Barbier, of the firm of Barbier & Co., Orleans, France, is a visitor in this country, making his headquarters with the firm's representatives here, Knauth, Nachod & Kuhne, 13 William St., New York.

Orlando Harrison, Berlin, Md., and Howard Davis, Baltimore, have been appointed on a committee of the Maryland State Horticultural Society to consider a revision of the state laws regarding horticulture.

Ellwood Cooper, of Santa Barbara, Cal., has been appointed by Governor Pardee state horticultural commissioner for California, under the new law. Mr. Cooper has appointed Alexander Crow assistant commissioner.

The committee appointed by the Eastern Nurserymen's Association to co-operate with the committee of the American Association on the subject of freight rates is as follows: W. C. Barry, C. H. Hawks, William Pitkin.

The value of nursery stock imported into the United States during 1901 was \$1,098,932; during 1902, \$1,172,570. The exports of nursery stock from the United States during 1901 amounted in value to \$134,961; during 1902 to \$132,027.

The Miami Fruit Company has purchased a farm of 1,114 acres near Fort Valley, Ga., for \$33,412, and has applied for a Georgia charter with a paid-up capital of \$60,000. It expects to have within the next two years a growing orchard of 200,000 trees.

"THE LOUISIANA PURCHASE."

*Breezy Budget of News from the Land of the World's Fair—
Freight Tonnage of Twelve Million Pounds Shipped by Stark
Bros. This Spring—85,000 Salesmen's Plate Books
Ordered—620 Employees in Packing House and Office
—Branches in Four States.*

LOUISIANA, Mo., May 4.—C. M. Stark, president Stark Bros.' Nurseries and Orchards Co.: "We have closed spring business and for the year it has been all that we hoped for or could desire—in fact, we have handled one of the largest year's businesses in the history of our nurseries. Doubtless we have shipped out more stock than has ever been handled at our home packing houses, a freight tonnage of over 12,580,000 pounds. While this is rather large, yet we are making plans to sell fully 50 per cent. more stock the coming season; and in doing so we shall only be keeping pace with our increased producing facilities. In this connection our salesmen's department has placed an order for 85,000 salesmen's plate books.

Employees Directly Interested.

"Visitors who are nurserymen, hence appreciative of the nursery business and all of its many details, have often wondered how it was possible to sell and pack so many trees in so short a time. There can be but one answer—system—organization—with interested employees in every department; in short, co-operation. Looking to the future, we began interesting little fellows who are growing up in the business, teaching them that the easiest way to make money is to save it. They are the ones who are to continue the work, so we are doubly glad to have them interested as stock-holders; then each one feels he is a business man—a proprietor. The boys' interest in looking after little things helps as well as the big things. It is to their interest in filling orders to do their very best so that every customer may be pleased. Working along this line, giving all the value possible, depending for profit in the volume of the business done, plays no small part in the wide distribution of Stark trees, not only throughout the United States, but in foreign countries.

No Dread of Packing Season.

"The foundation of the Stark Nurseries was laid some three generations ago and we are still building. Year by year our business has grown, until now everything moves like clock work; there is no dread of packing season. We are always on time. We have greatly enlarged our packing houses and buildings, more than doubling their capacity within the last year. We have put in another side track, so that cars go directly from our packing houses in every direction. Our freight rates are on St. Louis basis; in fact, we might consider Louisiana a suburb of St. Louis. But come to the Louisiana Purchase World's Fair and gain a full appreciation of St. Louis, the 'Future Great,' the next center of population.

"Nurserymen everywhere feel the scarcity of skilled labor; there has been even a great shortage of unskilled labor. We employed this spring in our packing houses more than 500 people; and an additional 120 in the office.

All Good Trees Are Needed.

"Another question is, 'Should plants continue to be increased or should they be decreased?' Overproduction and, oftener, under-selling for lack of facilities, etc., are injurious;

low prices follow good prices. Perhaps it is the lack of distributing or selling facilities, the growing of stock on chances, depending on some other nursery to make the market, etc., that gives us so many of the ruinous 'surplus' lists. (The word surplus should be eliminated from the nurseryman's vocabulary.) All the good trees that are produced are needed, and the only thing to do is to put them where they are needed.

Peach trees were scarce and in great demand last fall and the supply appeared to be short compared with the demand, especially for Elberta, but as spring came along peach came on the market from various sources, chiefly because many self-appointed horticulturists, together with the newspapers, were busy, as bulletin boards, reporting the peach crop killed. If some of these 'wise ones' could be exterminated along with other pests, nurserymen would sell more peach, and in due time our people would have fine peaches in greater abundance.

Six Branch Nurseries.

"With this spring's plant, we increased our home plant and opened additional plants, seeking such soil and climate as give best results, not only for growing, but distributing. We have here our home plant as usual, our general plants at Starkdale, Mo., and we are also growing some stock at Huntsville, Ala., and apple seedlings and a general list of northern sorts at Atlantic, Ia., where we are successors to the Silas Wilson Nursery. The Dansville, N. Y., plant has been enlarged and a fine nursery farm purchased, and the plants of the F. E. Williams Nursery Co. and Kelly Bros. consolidated with ours. At Portland, N. Y., we have increased our plant greatly, grapes, gooseberries, currants, etc.; and just here we might say that Missouri mules from the 'State of Pike' are something of a novelty in New York, but are undoubtedly the best animal known for nursery work and for pulling the Stark Tree Diggers.

In Arkansas.

"But perhaps one of the most interesting nursery plants we have is at Fayetteville, Washington Co., Ark., in the heart of the great 'American Apple Orchard.' This famous region is renowned for originating several new apples destined to play no small part in apple orchards of the future. Some of the most valuable sorts have not yet been introduced; we have found one sort in particular that we value more highly than any variety that has ever come to our attention. It is in our judgment the best apple known, a variety which we firmly believe will still be largely grown in the apple orchards of a century hence. And it is in this same Arkansas region that the skill and knowledge of a modest Swiss professor has evolved the Stark Star Grape.

"The condition of growing stock is favorable. Locally, planting is some later than usual, but while we have been planting here, we have been cultivating in Alabama and Arkansas. Fall sales are even better than a year ago."

LOUISIANA, Mo., May 2, 1903—Stark Brothers Nurseries and Orchards Co.: "Enclosed please find \$1 for renewal for another year. We could hardly get along without the NATIONAL NURSERYMAN."

PULASKI, N. Y., May 4, 1903.—L. J. Farmer: "I inclose \$1 to pay for subscription to the NATIONAL NURSERYMAN. You are getting out a fine journal and it ought to be taken and paid for by every nurseryman. It is the only paper that I subscribe for and I would feel at sea without it. Its beautiful appearance might suggest for it the name of the 'Ladies' Home Journal Among Horticultural Trade Publications.'"

Foreign Notes of Interest.

More nursery stock was exported to America from Boskoop, Holland, this year than ever before.

Reports from Berkshire, England, state that from April 13th to 20th, when fruit trees were in full bloom, icicles eight inches in length formed and the damage to the fruit was great, although the trees in many cases were covered with two and three thicknesses of fish-netting.

By a decision of the general appraiser, 20,000 bamboo plants imported from Yokohama, Japan, for the Golden Gate Park, San Francisco, have been admitted free of duty. It was maintained that the plants were exempt from duty under the tariff act because the Golden Gate Park is a public ground; also because the plants were specially imported for the sole use of the park.

Twenty Million Valley Pips.—Prominent in the line of exported horticultural articles from Germany are Lily of the Valley Pips. Formerly these Valleys were principally handled by Hamburg commission houses, not growers, whose proprietors collected them from farmers in the northern part of Germany. Experienced professional gardeners have taken up the culture of Valleys and have studied the commercial requirements, treating the business as a specialty. The firm of E. Neubert, of Wandsbek, near Hamburg, Germany, which is represented in the United States and Canada by August Rhotert, 26 Barclay St., New York, started in business 22 years ago with only 30,000 planting crowns. The present cultures on 200,000 square metres of land exceed more than 20,000,000 pips, and Mr. Neubert controls the crops of many small experienced gardeners in addition. He has issued a pamphlet descriptive of the business, with interesting illustrations. Late forcing Valleys are retained and some four millions are every year put in cases and placed in refrigerators from which they are shipped during the winter months to Italy, Spain and other European countries, and to South and North America.

The Veitchian Nurseries.—J. H. Veitch has issued for private circulation a series of photographic views representing portions of the Veitchian nurseries at Chelsea, Combe Woode, Langley, and Feltham, respectively, says the *Gardeners' Chronicle*, London, England. They are prefaced by a family pedigree from the time of John Veitch (1752-1839), of Jedburgh, the founder of the Exeter nursery. The Chelsea nursery was taken over by his grandson, James Veitch (1815-1869), from Messrs. Knight & Perry, in 1863, and as the business has grown, the other nurseries have been added. The omission of Mr. Harry Veitch's portrait is to be regretted. The Chelsea nursery is gradually being reduced in size, its houses being in future mainly destined to be show-houses, supplied from the country nurseries, where the plants can be grown under more favorable conditions. The seed warehouse at Chelsea has been lately rebuilt, and every effort made to sustain the well-earned reputation of the firm in this as well as in other departments. The beauties of Combe Wood are indicated, particularly in the case of the lily pond and bamboo garden; but repeated visits are necessary to grasp the great interest this nursery possesses in its quarters reserved for the cultivation of new hardy plants introduced by the firm. The hybridising department, over which the wizard Seden presides, is at Langley.

THE MAYNARD PLUM.

The Oregon Nursery Co., Salem, Ore., introducers of the Maynard plum, which was originated by Luther Burbank, has issued through the Rochester Lithographing Co., a catalogue descriptive of this new plum. The cover bears a lithograph of the plum in life size; also a lithograph of the tree and a basket filled with Maynard plums behind which stands Mr. Burbank. A photo-engraving of the originator and an appreciative sketch of this master of modern horticulture are given, together with interesting information concerning the plum. The company states that in the Maynard, Mr. Burbank has given to the horticultural world his latest and greatest effort in the plum line. Mr. Burbank himself says: "I consider the Maynard one of the best plums that I have ever introduced." Mr. Burbank receives a royalty on every tree of the Maynard that is sold. We have heretofore given a description of the plum.

THE GRIESA NURSERIES, LAWRENCE, KAN.

The dissolution notice, in the May issue of the firm of A. C. Griesa and Bro., Lawrence, Kan., to the effect that A. C. Griesa had bought the interests of T. E. Griesa, was somewhat incomplete.

The firm has dissolved. T. E. Griesa has sold his old lands, but not the growing stock. He has purchased new lands never before used for nursery purposes, and has made larger plantings than before the firm was changed. During the past twenty years T. E. Griesa has been the propagator, and has done more to bring the firm up to its present standard than is generally known. His present location just at the southern limit of Lawrence gives him the advantages of paved streets and nearer to railroads.

The new nurseries will be known as the Griesa Nurseries, T. E. Griesa, Prop. He is building extensive cold storage, propagating houses and office, all of which will be on the home grounds, where he will be pleased to see all of his old and new friends and customers.

COMMERCIAL STRAWBERRY CULTURE.

Des Moines, Ia., April 16—S. H. LINTON: "For two weeks immense quantities of nursery stock have been moved in Iowa; though there are several large growers in this state, yet there are large quantities shipped in from other states, both wholesale and retail. Iowa was blessed with a mild winter, yet there is some damage, especially to cherry and some plum trees. Many two and three-year old apple trees are more or less damaged in the last year's growth of limbs caused by excessive moisture and high temperature very late in the season, not giving time for maturity of wood before cold weather set in. Most all small fruits are in fair to good condition; this includes strawberries.

"An interesting and profitable subject for a paper to be read before the Association of Nurserymen would be, Commerce Strawberry Culture, starting in with Florida and covering the season of ripening on through to the north limit of the United States bounding each territory with the present available supply. This would greatly obviate some localities growing a surplus and give pointers to others where to locate to grow with the greatest profit and with least expense in cultivation and transportation. No doubt there are many practical strawberry growers who have not had the opportunity of traveling over the various states; and, therefore, do not know the facts just a little ways beyond them. Distance from market is not a consideration in growing where the very best and most improved facilities are given by the railroads and where fruit can be sent in express time, at freight rates in car load lots.

"Strawberry growing is either a profitable or losing business as the skill and environments of the grower apply, and every available means should be afforded by the American Association of Nurserymen, as this body is an established authority on all vital questions in fruit production as well as the propagation of nursery stock. In justice to the profession, and the interest of the grower, it would be important to have this article well covered by some one who is able to give the facts and not interested in one locality more than another."

The Roeding Packing Co., Fresno, Cal., has been incorporated, with a capital stock of \$100,000, by George C. Roeding, Elizabeth T. Roeding, C. H. Riege, F. W. Roeding and C. C. Freman.

Long and Short.

F. T. Ramsey, Austin, Tex., offers cool summer work for budders. Peach trees are a specialty with the Village Nurseries, Harnedsville, Pa. Apple, pear and forest tree seedlings, and apple and pear grafts may be had of J. A. Gage, Beatrice, Neb.

The new blackberry, Ward, may be had of Chas. Black, Hightstown, N. J., or D. Baird & Son, Baird, N. J.

Apple, peach, cherry, grapes are offered by Willis Nurseries, Ottawa, Kan. Correspondence solicited.

Dutch and French growers are represented by McHutchison & Co., 218 Fulton St., New York. Japanese nursery stock and raffia.

Two-year old apple at special price on early orders of A. L. Brooke, North Topeka, Kan. Apple grafts made to order. Apple seedlings for fall.

Benjamin Chase, Derry, N. H., is accumulating a large stock of labels to meet orders. This well-known label man will be represented at Detroit.

Exceptionally artistic and effective catalogue work is done by the J. Horace McFarland Co., Harrisburg, Pa. Mr. McFarland will be at the Detroit convention.

F. W. Watson & Co., Topeka, Kan., offer for fall trade apple trees, cherry trees and apple seedlings. Special prices on orders placed now. Clean stock; all grades.

French stocks in large variety and in large or small quantities can be had of Frederick W. Kelsey, 150 Broadway, New York, sole agent for the U. S. and Canada for Colombe Brothers, Ussy, France.

Barbier & Co., Orleans, France, have issued a preliminary list of French stocks which may be had of their agents, Knauth, Nachod & Kuhne, 13 William St., New York.

The Dayton Fruit Tree Label Co., Dayton, O., are manufacturers of wood labels of every variety, plain, painted, printed and wired, for nurserymen. The high standard quality of their labels and the promptness in filling orders merit a trial order.

The Spramotor, Co., London, Ont., and Buffalo, N. Y., are manufacturers of painting spraying, whitewashing and disinfecting apparatus, used by the government authorities of Canada, adopted by the New York, Ohio, Michigan, Delaware, New Jersey and Iowa Experiment Colleges, winner of the government spraying contest and of more than one hundred highest awards throughout the world.

One million peach trees grown on shore of Lake Erie are offered by Storrs & Harrison Co., Painesville, O. No healthier, better trees can be procured. This firm has an immense stock of small fruits, all leading varieties of highest grade, packed right. It has also the largest acreage of field-grown rose plants in the world. A fine line of ornamental stock. Direct importations. Special rates on car lots for fall shipment or stored for spring delivery. Personal inspection cordially invited.

LARGE PEACH ORCHARD PLANS.

J. G. McNair, of St. Louis, Mo., who is well-known among the fruit-growers of Georgia, has just organized the "United Orchard Company," under the laws of Missouri, for \$1,500,000 capital, says the Peach Grower.

The company will own the largest orchard in the world. Included in the consolidation are five large orchards in Missouri, Illinois and Arkansas. The total number of trees will be 1,026,000; acres of land, 10,240, situated in Missouri, Texas, Alabama, Illinois, Georgia and Arkansas. Their Illinois, Missouri and Arkansas orchards are now the largest in their respective states. They will have 1,019 acres in Georgia, and will add 1,500 more, making the Georgia orchard the largest.

WEST VIRGINIA'S LICENSE LAW.

Our attention has been called to what is declared to be a drastic law in West Virginia affecting nursery agents only. It is probable that N. W. Hale, of Tennessee, will bring the matter before the Detroit convention.

Recent Publications.

Country Life in America for June contains as usual a large amount of matter of interest to lovers of out-door life. The illustrations, as usual, are novel and profuse.

The Chase Rose Co., incorporated, Harry B. Chase, president; Martin A. Chase, treasurer; Charles W. Howard, secretary, of Riverside, California, has issued a booklet showing excellent half-tone engravings of field roses on own roots.

The World's Work for June is the annual "World at Play" number with timely articles on vacation topics. The practical side of the modern vacation is discussed by Lawrence Perry and Dr. A. T. Bristow considers "The Most Healthful Vacation," from a doctor's point of view. There is a brilliant word picture of a trip "On Horseback Through Yellowstone National Park."

Vines lend themselves with facility to many and varied uses. Walls, pillars and embankments may be clothed in them; walks exposed to the burning sun may be covered; and a back porch, a post sunk in a neglected spot, a sunny back door, all furnish opportunities for thrifty vines, says the Delineator. For permanent effect, nothing surpasses the Boston or Japanese ivy. It is hardy and luxuriant, climbs firmly, and does not run across openings of doors, windows, etc.

"The Farmer's Business Handbook" is the title of a volume by I. P. Roberts, of Cornell University. It is one of the Rural Science series which is edited by Prof. L. H. Bailey. This volume is a manual of simple farm accounts and of brief advice on rural law. Of course much of what is here discussed is of as much value to the nurseryman as it is to the farmer, especially part II which treats of rural law. This portion of the book was written by Herbert D. Mason, of the New York State Bar. Cloth, \$1 00. New York: THE MACMILLAN CO. Rochester: SCRANTON, WETMORE & CO.

LOCKPORT, N. Y., May 5, 1903.—Hiram Gregory: "Inclosed please find \$1. I had sooner part with that than miss the journal."

Budders Wanted FOR OVER A MILLION trees at the Austin Nursery, and for 200,000 in the Hereford Nursery. Hereford is on the plains; 3,500 feet elevation. Cool all summer. Come south-west young man.

F. T. Ramsey - - AUSTIN, TEXAS

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and grove. For fence posts, telegraph and telephone poles, most lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

**Nurserymen
Wanted.....**

EXPERIENCED BUDDERS at Louisiana, Mo., Starkdale, Mo., Farmington, Ark., Dansville, N. Y. Apply on premises, or address
**Stark Bro's N. & O. Co.,
Louisiana, Mo.**

Traveling Salesman familiar with Nursery Line:—Young, energetic, sober and representative business man for visiting the Wholesale Trade and Growers in well established lines of European Cultures. State references, age, experience and Salary wanted. Address: "Strictly Confidential" care of the National Nurseryman, Rochester, N. Y.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of
**Fruit and
Ornamental**
stock for fall
trade.

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubbery
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

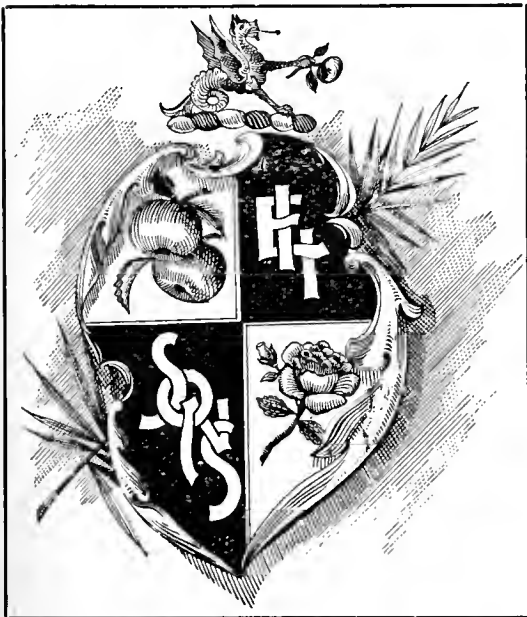
THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

Office, Cutler Building

Nurseries at Brighton

I. E. Ilgenfritz' Sons



THE —
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

CHOICE STOCK

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

Pioneer Nurseries Company

BOX 1406,

SALT LAKE CITY, - UTAH.

OFFERS FOR SPRING, 1903, SHIPMENT:

STANDARD APPLES, including BEN DAVIS,
GANO, Etc.

STANDARD PEARS, including a fine lot of BART-
LETT. We are also headquarters for the **ROSSNEY PEAR**,
introduced by us, the best of its season.

PLUMS and PRUNES, both on plum and peach stocks.
Also a large assortment of **GENERAL NURSERY
STOCK.**

HILL'S EVERGREEN NURSERIES

intend to keep at the head for hardy, nursery grown trees for the nur-
sery trade. A general assortment of seedling varieties, all sizes. A
large supply of Douglas, Hemlock, and White Spruces. A grand lot
of the famous Rocky Mountain Blue Spruce and Concolors. White,
Scotch, Austrian and Dwarf Mountain Pines. Arborvirates, etc. Over
two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

WANTED

By Eastern Import house, an experienced
Traveling Salesman, thoroughly com-
petent in Nursery line. Must have established trade. State
experience, age and salary expected. Discretion guaranteed.
Address: A. B. C., care The National Nurseryman,
Rochester, N. Y.

New Haven Nurseries

NEW HAVEN, MO.

—SURPLUS—

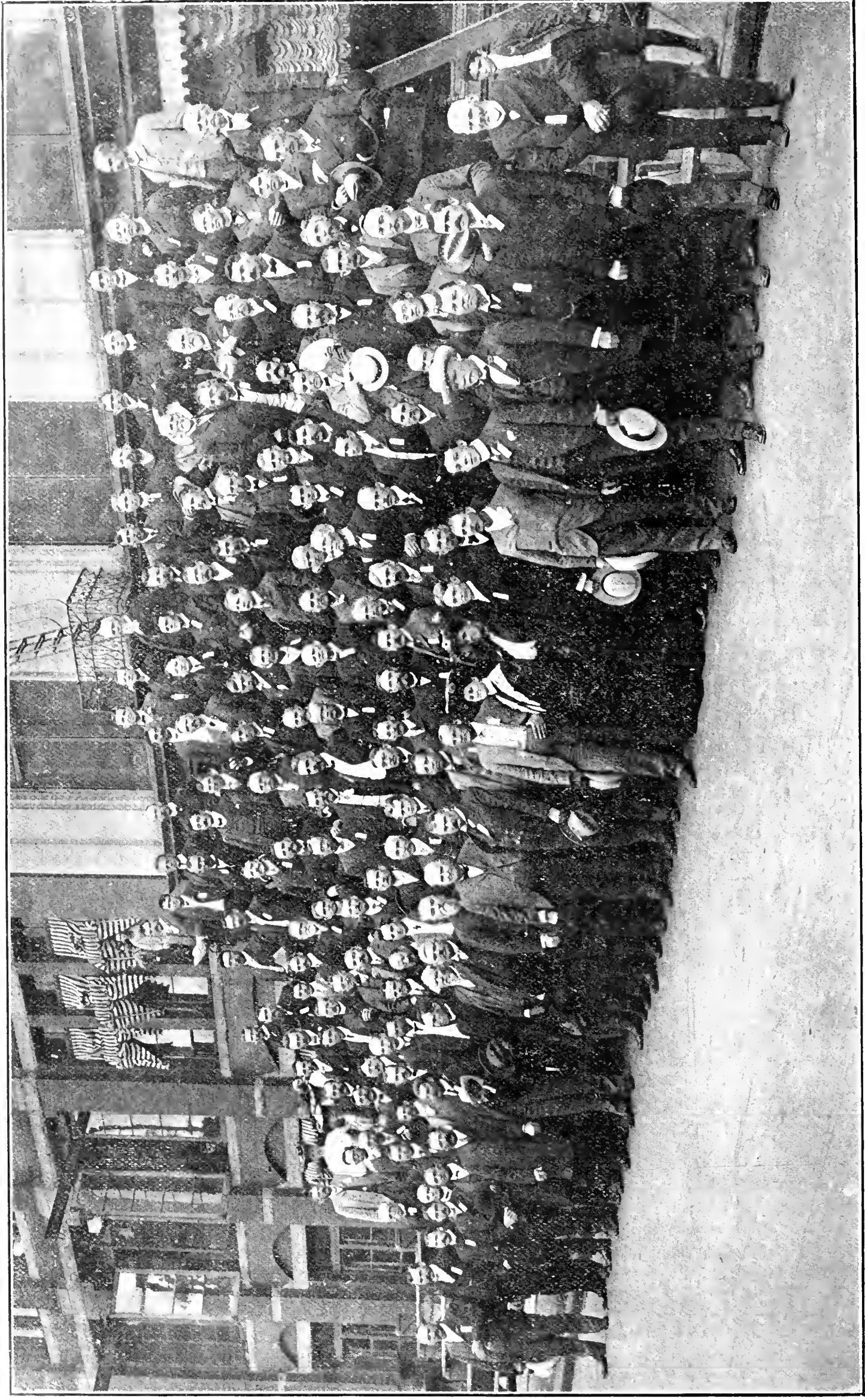
**APPLE, PEACH
PEAR, PLUM**

Strictly high grade. Over 200,000 Elberta
Correspondence and personal inspection of
stock is invited. Location, 67 miles west of
St. Louis, on main line of the Mo. Pac. R. R.
Missouri River uplands.

New Haven Nurseries

NEW HAVEN, MO.

When writing to Advertisers mention The National Nurseryman.



MEMBERS OF THE AMERICAN ASSOCIATION OF NURSERYMEN IN ATTENDANCE AT THE ANNUAL CONVENTION IN DETROIT, MICH., JUNE 10-12, 1903.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

Copyrighted 1903 by The National Nurseryman Publishing Co., Incorporated.

"The nurseryman is in honor bound to use the greatest care in propagating."—J. H. HALE.

Vol. XI.

ROCHESTER, N. Y., JULY, 1903.

No. 7.

DETROIT CONVENTION.

PROCEEDINGS OF THE TWENTY-EIGHTH ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF NURSEYMEN.

*Two Hundred and Fifty Members Present—Practical Topics Discussed by Experts — Insurance — Varieties — Publicity—
Fumigation—Cost of a Tree—Ornamental Stock—
Financial Reports—Work for State Vice.
Presidents—N. W. Hale, President
—Atlanta Next Year.*

One of the liveliest conventions of the American Association of Nurserymen was the twenty-eighth, held at Detroit, June 10-12, under generally favorable conditions. The weather was unusually cool, but this interfered only with such sight-seeing as had been planned.

At 10:30 A. M. on June 10th President Charles A. Ilgenfritz called the convention to order in the Assembly hall in the Hotel Cadillac, and introduced Mayor Maybury, who gracefully welcomed the nurserymen to Detroit. The response was by George A. Sweet, of Dansville, N. Y., whose suggestion that the mayor be elected an honorary member of the Association was adopted on motion of C. L. Watrous.

PRESIDENT'S ADDRESS.

President Ilgenfritz delivered his address as follows:

Gentlemen of the American Association of Nurserymen:

We are assembled to-day in the beautiful City of the Straits for our twenty-eighth annual convention. The wisdom of the founders of this organization is manifest by the large attendance on this occasion, and it must be a matter of personal pride to the many we are favored with having here, who were present at its birth.

Much good has been accomplished in the past, yet I believe the opportunity for still greater good is open to the future of this Association. This is an age of organization and progression, and if we would keep pace with it, we must be up and doing. The social feature of this body, one of the purposes of its formation, has been most gratifyingly successful; with this element existing to so marked a degree, it would appear that the efforts of the members for bringing about still better methods of business can be accomplished. I cannot refrain from saying that a feeling of unrest is apparent and that something more is desired by many. There are a number of matters of vital importance in the interest of all, which cannot be managed individually, that should be discussed and considered here, and it will be only through concerted action that the desired results can be attained. Congratulations are due the members of this Association for the year of prosperity that has just passed and although there have been some disappointments met with, yet on the whole the conditions of business have been favorable, and it is to be hoped that they will continue as good.

OVERPRODUCTION.

We are enjoying our share of prosperity with other lines of industry, but the question is, are we not on the verge of overproduction by which many will sacrifice the profits of the past few years in their endeavors to gratify the ambition of greater gain? This is an important matter and should be well considered.

The Association is to be complimented on the excellent work of a number of its committees this year, who have labored faithfully and well for the interest of this organization. Through the courtesy of the

members of your legislative committee, I had the pleasure of meeting with them in Washington. They did everything in their power to obtain the passage of the federal bill. I can assure you that the committee represented this Association most creditably, and although they did not succeed, yet I believe their efforts will not go amiss and that the foundation is well laid to accomplish in the future what is desired, as I feel confident will be later reported by your committee.

During the past year the eastern classification committee of railroads has made some changes in the rates on the transportation of nursery stock, the most objectionable feature of which was advancing the rate on nursery stock in boxes from third to second class. Changes were also made in regard to rates on carload lots, making lower rates on smaller cars and higher rates on the largest, which I think will work no particular hardship. Owing to the overworked condition of the railroads it was not deemed advisable by your committee on transportation to do anything in the matter at present, but as soon as the strain on the railroads is removed some important work can be accomplished by your committee.

TWO NEW COMMITTEES.

Two new committees were appointed this year, one on program as authorized by the Association, and another on publicity. I think both committees will assist materially in the interest of the work of the Association. The program committee has been untiring in its efforts to accomplish its work in a manner that will, I believe, prove satisfactory to all, and to Mr. McFarland of the committee the credit is due. In reference to exhibits at our annual meeting, I think they should be encouraged and that there should be a committee for that purpose. It is the only opportunity many have of seeing for themselves the new fruits that are in season, specimen trees and plants, implements, spraying apparatus and the many articles that are necessary to the successful nurseryman.

Fire insurance has become an important matter with nurserymen and I believe should receive attention from this Association. Mutual companies are being successfully conducted all over this country, and I have good reason to think that this body is as fully competent to deal with it as any other, and that much financial benefit could be derived by nurserymen if a mutual fire insurance company was formed from among its members. I recommend that a committee be appointed to investigate the matter.

INCREASE OF DUES.

I would suggest that the annual dues of the Association be advanced to five dollars. I do not think that it would effect our membership and it would afford more money, which could be used to good advantage. I do not think it would be good policy to build up a large fund, but there are many ways in which more money can be used to further the interest of the members of this organization, if it was at the disposal of its committees.

Our secretary is entitled to much credit for the able manner in which he attends to the duties of his office, and to his efficient management is due to a large extent the success of our Association.

We are fortunate in having a worthy treasurer ever faithful to his trust, and who embraces every opportunity to advance the welfare of this organization.

In conclusion, I would say I appreciate the honor you have conferred on me by being elected to this important position. It was unexpected and I reluctantly accepted, feeling that you could make a better selection, but since it was so decreed, I have endeavored to discharge the duties to the best of my ability. I feel very thankful to the officers and committees who have given me their ready and able support, and I hope each member will do all he can to make this a pleasant and profitable convention. Each one has his part to take toward making this a successful meeting and one that will repay each person for coming here.

A letter from Governor Bliss, regretting his inability to be present, was read.

SECRETARY'S REPORT.

Secretary Seager's report was as follows :

RECEIPTS, JUNE 4, 1903.—Membership fees, \$902.00; advertising-report, \$126.60; advertising, badge book, \$469.15; total advertising, \$595.75; exchange, \$2.20; total receipts, \$1499.95.

DISBURSEMENTS.—Check to C. L. Yates, treas., \$295.00, Dec. 31, 1902; \$1100.00, June 1, 1903; \$88.15, June 4, 1903; total to treas., \$1483.15; exchange, 16.80; total disbursements, \$1499.95.

TREASURER'S REPORT.

Mr. President, Officers and Members of the American Association of Nurserymen.

I herewith present my annual report for the period beginning June 11th, 1902, and ending June 8th, 1903 :

RECEIPTS.

1902—June 11th, To cash on hand.....	\$2,717 07
1903—Jan. 2nd, George C. Seager.....	\$ 295 00
Interest to Jan., 1903 ...	52 91
June 2nd, George C. Seager.....	1,100 00
“ 4th, George C. Seager.....	88 15
	1,536 06
Total.....	\$4,253 13

DISBURSEMENTS.

1902—June 12th, Silas Wilson, expense to Wash. Leg. Com.	\$ 118 55
“ “ C. L. Watrous, “ “ “ “	111 55
“ 18th, Thos. B. Meehan “ “ and N. Y..	14 50
“ 19th, George C. Seager, salary.....	300 00
“ “ “ “ clerk hire.....	30 00
“ 20th, L. H. Bailey, ex. to Milwaukee June, '02 .	57 14
“ “ The Whithead & Hoag Co., badges.....	28 74
“ “ Burdick & Allen 1,000 circulars.....	7 50
“ “ Union & Adv. Co.	260 34
“ 25th, C. L. Yates, salary.....	50 66
July 8th, Miss E. Jacobson, report of convention...	50 00
Sept. 18th, Union & Adv. Co., proceedings, etc.....	231 66
“ “ “ “ envelopes, etc.....	36 75
1903—Jan. 20th, M. E. Wolff, Fidelity & Treas. bond .	18 75
Feb. 13th, R. C. Berckmans, Leg. Com ...	51 97
“ 14th, Silas Wilson, “ “	98 20
“ “ C. L. Watrous, “ “	93 80
“ “ “ “ envelopes, etc.....	10 80
“ 16th, James Houston, Mich. Pass. Ass'n	6 00
Apr. 22nd, Counter.....	22 00
1902—May 13th, Counter.....	50 00
1903—May 16th, Geo. A. Sweet, Leg. Committee.....	38 50
“ 30th, C. J. Brown, “ “	37 56
	\$1 724 97
To balance.....	2,528 16
	4,253 13

All of which is respectfully submitted,
C. L. YATES, Treasurer.

These reports were referred to an auditing committee composed of John S. Kerr, John B. Morey and J. W. Gaines, which reported that they were correct and they were adopted.

H. W. Collingwood of New York, editor of the Rural New Yorker, read a paper on “The Nurseryman as the Editor Sees Him.”

“Publicity for Nurserymen” was the subject assigned to Frank B. White, of Chicago, whose paper is too long for reproduction at this time. It was an argument in favor of advertising. The subject was discussed by Ralph T. Olcott, J. M. Irvine, Prof. L. H. Bailey, J. H. McFarland and H. W. Collingwood.

“The Whole Question of Varieties” was the subject of a paper read by Prof. L. H. Bailey.

STATE VICE-PRESIDENTS.

State vice-presidents were elected as follows :

Alabama, Henry B. Chase, Huntsville; Arkansas, G. A. Gamble, Fort Smith; Colorado, George J. Spear, Greeley; California, Charles Howard, Riverside; Connecticut, J. H. Hale, South Glastonbury; Delaware, Alexander Pullen, Milford; Georgia, R. C. Berckmans, Augusta; Illinois, Irving E. Spaulding, Spaulding; Indiana, R. A. Simpson, Vincennes; Iowa, J. W. Hill, Des Moines; Kansas, E. P. Bernardin, Parsons; Kentucky, J. F. Donaldson, Warsaw; Indian Territory, J. A. Taylor, Wynnewood; Maryland, Orlando Harrison, Berlin; Massachusetts, J. W. Manning, Reading; Michigan, Charles A. Maxson, Kalamazoo; Minnesota, E. A. Smith, Mankato; Missouri, Frank A. Weber, St. Louis; Nebraska, George Marshall, Arlington; New Hampshire, John C. Chase, Derry; New Jersey, Hiram T. Jones, Elizabeth; New York, Horace Hooker, Rochester; North Carolina, J. Van Lindley; Ohio, F. D. Green, Perry; Oklahoma, J. A. Lopeman, Enid; Oregon, M. McDonald, Salem; Pennsylvania, Thomas B. Meehan, Dreshertown; South Dakota, Geo. H. Whiting, Yankton; Tennessee, E. W. Chattin, Winchester; Texas, R. T. Ramsey, Austin; Virginia, K. Morton, Richmond; Wisconsin, T. J. Ferguson, Milwaukee.

OFFICERS ELECTED.

The nominations by the state vice-presidents of a list of officers for the convention was adopted and the following were declared elected :

President—Nathan W. Hale, Knoxville, Tenn.
Vice-President—Frank A. Weber, St. Louis, Mo.
Secretary—George C. Seager, Rochester, N. Y.
Treasurer—C. L. Yates, Rochester, N. Y.
Executive Committee—William Pitkin, Rochester, N. Y.; Peter Youngers, Geneva, Neb.; John S. Kerr, Sherman, Tex.

It was voted to increase the salary of the secretary from \$300 to \$500.

PLACE OF MEETING.

Invitations to hold the next convention of the American Association of Nurserymen in the following cities were received: Atlanta, Chicago, Cleveland, Milwaukee, St. Louis, Richmond. John H. Chase, Derry, N. H., presided at the meeting of state vice-presidents, and F. D. Green, Perry, O., acted as secretary. The vote for place of meeting next year narrowed down to St. Louis 12, and Atlanta 10; total 22 votes.

When the recommendation of the state vice-presidents to go to St. Louis was announced, arguments in favor of Atlanta, Ga., by R. C. Berckmans; Cleveland, O., by Mr. Babcock; St. Louis, by Prof. Stinson; and Chicago, by Irving Rouse, were made.

Mr. Berckmans extended a warm Southern welcome to the Association, backed by the cordial invitation of the state boards of horticulture, agriculture and commerce. Mr. Albaugh said attempts had been made to hold conventions of the Association in cities where world's fairs were in progress, and the conventions had been overshadowed by the greater attraction. He believed that if the Association expected to accomplish anything at the conventions, it must keep away from great expositions. He seconded the motion to go to Atlanta. Mr. Albaugh's sentiments regarding expositions were expressed by several others. Charles E. Greening said he would like to invite the Association to go to Monroe, Mich., next year if he thought there was any likelihood that the invitation would be accepted. Under the circumstances, he would endorse the proposition to go to Atlanta.

PLEA FOR CHICAGO.

Irving Rouse—“After all is said, there is just one place for

this Association to go next year and in succeeding years—and that is Chicago, and the Chicago Beach hotel.”

Mr. Gaines—“I second the nomination of Chicago.”

J. H. Hale seconded the nomination to go to Atlanta. The new Piedmont hotel offered first-class accommodations. He said that during the last eight years more than 3,000 orchardists had planted 18,000,000 trees in the South, and the horticultural interests there had been wonderfully extended. He pictured in glowing colors the enthusiasm with which the people of the South would extend a glad hand to their brethren of the North, and the railroads even would place at the disposal of the nurserymen their best trains for excursion purposes. “Why, we will guarantee you ten degrees cooler weather than you will find in St. Louis in June or July, and we ask you to come the first week in July, so that you may see our fruit interests to the best advantage.”

Mr. Heikes emphasized the fact that a hearty welcome awaits the nurserymen in the South. Prof. W. G. Johnson said he had been in Atlanta within a few weeks and that the weather was delightful.

KIRKPATRICK FOR ST. LOUIS.

As the smoke cleared away from this battery from the Solid South—Berckmans, Hale, Johnson, Heikes—reinforced by Albaugh and Greening, up rose the tall Texan who always has something to say to the point.

Mr. Kirkpatrick—“Why, what is the occasion for all this spread-eagle oratory from the South? Gentlemen of the convention, don’t let them fool you with their high-sounding phrases. Come to the West next year. Come to St. Louis, where the greatest exposition of all time is being prepared for you; where there are ample accommodations; where a warm welcome awaits you; where—”

Mr. Berckmans—“Where the raging waters accumulate.”

The President—“We will consider the names of the cities mentioned, in order.”

Mr. Albaugh—“Atlanta has been proposed as an amendment to the motion to go to St. Louis.”

The rising vote resulted: Atlanta, 62; St. Louis, 54.

UNANIMOUS FOR ATLANTA.

W. G. Withoft remarked that all would be pleased with the choice of Atlanta, when Irving Rouse renewed his motion in favor of Chicago. Mr. Albaugh suggested that the gentleman from New York could move to reconsider, and Mr. Rouse made such a motion. N. W. Hale made a plea for getting down to business and letting the discussion of meeting place rest. Then George H. Whiting suggested that as Mr. Rouse voted with the minority on the Atlanta-St. Louis proposition, he could not move to reconsider. The chair declared the point well taken and the discussion was ended. Upon motion of Mr. Watrous the vote to go to Atlanta, Ga., next year was made unanimous.

Upon motion of J. H. Hale, the executive committee was empowered to select the date for the next convention.

STANDING COMMITTEE REPORTS.

Chairman Watrous of the committee on legislation reported that the committee met in Washington, D. C., January 6th and found that Congressmen Joseph G. Cannon and J. Breck Perkins were opposed to the measure. Chairman Watrous was of the opinion that further effort at present was useless.

Irving Rouse, chairman of the tariff committee, said the

only matter that had come before the committee was that in which August Rolker & Sons was interested, and as Mr. Rolker was present he could speak for himself. Mr. Rolker said the whole subject was familiar to all who read the NATIONAL NURSERYMAN, as the matter was published in full in the May issue. Mr. Rolker read the affidavit which was made by several prominent nurserymen in the seedling case, and then said he would leave the matter with the convention. President Ilgenfritz asked if any action was desired by the Association, and as there was no response, he proceeded with the program.

The chair appointed the following committees: Exhibits, William P. Stark, T. D. Green, Allen L. Wood; resolutions, J. H. Hale, E. M. Sherman, E. W. Kirkpatrick.

The committee on transportation, in the absence of Chairman A. L. Brooke, reported through E. Albertson that no matters had come before it.

SUBJECTS DISCUSSED.

F. W. Taylor, St. Louis, was not present. His paper, which was mainly an invitation to go to St. Louis, was not read; nor was a paper assigned to Howard A. Chase, Philadelphia, on “The Agency Business.”

George C. Perkins, Newark, N. Y., read a paper on “Insurance for Nurserymen.” This was discussed briefly by William Pitkin and E. Albertson. The president appointed a committee of three to report upon this matter at the next meeting. This committee is composed of George C. Perkins, E. Albertson and William Pitkin. “The Nurseryman’s Work in Texas” was the subject of a paper by E. W. Kirkpatrick, McKinney, Tex. J. H. Hale, South Glastonbury, Conn., gave a talk on “The Relation Between the Nurseryman and His Customers.” W. C. Barry discussed the “Importance of Ornamental Stock to the Nurseryman,” and Prof. John B. Smith read a paper on “Spraying and Fumigation for Nurserymen Up to Date.” George A. Sweet, Dansville, N. Y., talked on “The Cost of a Tree,” which caused discussion. The paper by G. L. Taber, Glen St. Mary, Fla., on “The Nursery Interests of the South” was not read, in the absence of the author.

At the close of the discussion on “The Cost of a Tree,” the president-elect, upon motion of Mr. Watrous, was asked to appoint a committee of five to report upon a plan for ascertaining as nearly as possible the cost of a tree.

DRASTIC LICENSE LAWS.

Upon opening the question box the following was found:

“What should nurserymen do about West Virginia and Virginia laws?”

William Pitkin—“This is of interest to retail dealers particularly, and what is of interest to them is indirectly of interest to the wholesalers. The West Virginia law provides that every retail nurseryman must take out a license of \$10 for each county in that state in which he operates. He must furnish to the county clerk a list of his agents in that county, and each must exhibit a license taken out by the principal, under a penalty of from \$50 to \$500.

“The Virginia license fee is \$20 annually for every salesman.

“These laws are plainly unconstitutional. They can tax their own people, but they cannot tax the outsider. If these laws are not attacked they will become burdensome and it will be difficult to do business.

"The practical way is for this Association to take up the matter. We should not allow the individual to pay the cost when we are all affected. We should be willing to expend some money to contest this matter. I move that the whole subject be referred to the committee on legislation with power to act and to bring a test case in Virginia or West Virginia or other states. It is possible that the authorities might recognize the influence of such a national body as this."

The motion was quickly seconded by several in the convention.

Mr. Hoopes—"I think the bill has been withdrawn. I wrote to the attorney general of West Virginia, but have not heard from him."

Mr. Pitkin—"I have seen a letter from the attorney general in which he declined to interfere with the full operation of the law."

N. W. Hale—"The attorney general has declared that the law will be enforced unless it is repealed."

The motion by Mr. Pitkin was unanimously adopted.

OFFICIAL ASSOCIATION REGISTER.

John H. Chase moved that the secretary procure a book in which shall be kept a permanent record of all who attend the conventions of the American Association; that badges be not issued until registry is made, and that the list be published in the proceedings. Carried.

It was suggested that any courtesies extended to the members of the Association can be made more readily available under such a system of registry.

PROPOSED INCREASE OF DUES.

Harlan P. Kelsey moved that the dues of the Association be raised from \$2 to \$5. The motion was promptly seconded.

Mr. Watrous asked a reference to the executive committee, with instructions to report at the next convention. This action was taken. Mr. Kelsey explained that while there appears to be a balance in the treasury of the Association, there is work to be done that will require expenditure of money and there ought to be a working balance. "If the Association is worth anything to a nurseryman it is worth \$5," said Mr. Kelsey.

From the question box was taken the following: "How should June-budded trees be measured—from the point where the bud is inserted or not?"

Mr. Munson, of Texas—"I should say not. They should be measured from the ground."

Mr. Heikes—"From the ground."

CROWN GALL.

A question regarding crown gall was referred to Prof. W. G. Johnson, formerly entomologist of Maryland, who said:

"It is pretty well known what crown gall is. It is not a parasite, but is the work of a group of creatures like low forms of animal life. So important is this subject to the nurseryman that if I were chairman of the program committee I would give five hours instead of five minutes to the discussion and I would discuss the subject in executive session, behind closed doors.

"The same organism that produces crown gall produces club root in cabbage and allied forms. We have 2,000 species in North America. The whole point is one of distribution. It is found mostly on grafted stock at the crown. The period when it is most active is on stock from one to six months old. The San Jose scale was bad enough, but we could see that. Here comes an organism so small you cannot see

it, except with a compound microscope magnifying 12,000 or 15,000 times, and it is under ground too. Now, how can we prevent it?"

Upon motion of Mr. Watrous an extension of five minutes was granted to Prof. Johnson. Great interest in what he had to say was manifested by all present.

Prof. Johnson—"We may have wart or crown gall on our trees and it will not seriously affect them. In the case of a robust, vigorous-growing tree the effect of the crown gall is overcome.

REMEDY SUGGESTED.

"Now as to the remedy. Formalin is a great germicide and preservative. It is used in museums for the preservation of plants. It is used as a disinfectant in institutions of surgery. It destroys germs. Can we not use formalin as a preventive of crown gall? Some of us know of cases of badly infested stock. If in grafting I cut through one of these crown galls, my knife blade will be covered with spores. I may bud all day with the same knife upon which there thus come millions of germs. In this way is the gall distributed under conditions favorable to its growth. Of course many of these germs do not develop. If all did develop there would not be any nursery business.

"A two per cent. solution of formalin will do the work. A forty per cent. solution can be bought at fifteen cents per pound (pint) in carboy lots, and it wouldn't cost ten cents to make a solution that would answer for a large amount of work. I believe it is worth while to try it, and if it works we could treat 100,000 to 10,000,000 trees for fifty cents."

Mr. Collingwood—"Shall we throw out all trees in the lot if crown gall is found on one?"

Prof. Johnson—"Generally speaking, I would say no, but, of course, this would depend considerably on circumstances and conditions. If the trees were good, strong, vigorous ones with no signs of disease, I certainly would not destroy the entire lot, simply because a single one might be found infested. In my opinion such a procedure would be a useless destruction. If one of our members should be found with a well-developed cancer, none of us would think that his presence would be harmful to other members. Like strong, healthy and vigorous persons, trees with good constitutions are able to resist the attack of insects and fungous diseases. On the other hand the weakling is always liable to infestation from some source, whether it be animal or plant. The chances are that strong, vigorous trees would be able to overcome and throw off any disease germs that might accidentally be attached to the roots or upon them at the time of planting. These little organisms do not have much chance on hardy, vigorous stalks when once well started. The greatest difficulty arises where the disease gets a foothold on young seedlings, and these are most susceptible when from one to six months old."

PROPAGATING FROM CROWN GALL.

Mr. Kirkpatrick—"Would you propagate from a tree affected with crown gall?"

Prof. Johnson—"Under ordinary circumstances I would say, no, but there is no reason why it should not be done. There cannot be any possible connection between the buds and cions of a tree and the crown gall on its roots. The trees may be weakened by the presence of the gall, but buds and cions cut from it may or may not develop the gall. That

depends on conditions and whether the spores of the disease are present on the stock. So far as this is concerned, we all know that it is not good policy to propagate from any stock which shows constitutional weakness. We also know that certain varieties are more susceptible to crown gall than others. All these points should be considered in this connection. It should be clearly understood that there is no immediate connection, so far as the gall is concerned, and the bud and cion taken from the tree. It would be best to avoid propagation from such stock; but, as a matter of fact, we all know that it is practicably impossible to know whether a tree in the nursery row is infested until after it is dug. In many cases buds are cut regularly from the nursery row before the trees are sent out. We have been going blindly along this line for some time and the matter is one well worth a practical test. As stated above, while there can be no immediate connection, I am of the opinion that nurserymen should avoid propagating from stock subject to the attack of this disease much as possible. With careful selection of stock, showing resisting properties to the disease, I believe, in time, a much more hardy strain of trees could be procured. This, however, cannot be done in a single year, and it is exceedingly doubtful if it can be done at all as trees are now propagated in nursery rows."

Mr. Kirkpatrick—"Well, Mr. President and gentlemen, this matter has been put to a practical test. I hope you will all make the practical test, and not reason from analogy as has been done here. We have got to go beyond analogy and theories."

John T. Stinson, superintendent of pomology, department of horticulture of the St. Louis exposition, urged the nurserymen to send exhibits of fruit trees or plants to the exposition. He said the department will care for them and that the only expense will be the furnishing of the trees and the freight.

STANDING COMMITTEE ON EXHIBITS.

Upon motion of F. A. Weber, the president elect was asked to appoint a standing committee on exhibits, so that arrangements may be made definitely for the receipt, care and display of exhibits.

Prof. Johnson suggested that in the preparation of the program for the next convention one full session be made an executive session; that the questions in the question box be divided by the executive committee into two classes, for the open and executive sessions respectively.

Mr. Berckmans presented a report of the committee on resolutions, thanking the Central Michigan Nursery Co. for flowers, Mr. Breitmeyer for palms for decorating convention hall, and the trolley and steamboat companies for excursions. The committee thanked the press for reports of the convention, and stated that the Association was indebted to Mr. Breitmeyer and President Ilgenfritz for many favors.

STATE VICE PRESIDENTS TO FORM COMMITTEES.

Prof. Johnson moved that the state vice-presidents form a committee to keep each other posted regarding legislative matters, and suggested that each state vice-president be empowered to appoint members of his committee.

The committee on exhibits, through Chairman F. D. Green, reported that fruits from Texas made a good appearance; that there was a good exhibit of nursery supplies and that a peach seed planter recently perfected attracted considerable attention and received endorsement by those who had used it.

PRESIDENT HALE IN THE CHAIR.

At this point President N. W. Hale, who had just been elected, took the chair and said:

Gentlemen of the Association:

I belong to several kinds of business, one of which is that of lieutenant governor at my home, and I'm glad to say I'm proud of being elected president of the American Association of Nurserymen. I believe I do myself an honor in accepting this office.

Nurserymen for two reasons are the greatest people in the world. In the first place they are the most hospitable. They began, most of them, at the bottom of the business and have worked up through all stages. They know that it takes one hundred cents to make a dollar. One may feel on an equality at a nurseryman's home. Surely the great brotherhood of man exists among the nurserymen. In the second place, nurserymen are great workers. The man who works less than twelve hours a day is not a good nurseryman. It is an honor to be president of an association representing one of the largest industries in the country, one that does more than any other to benefit the masses.

Gentlemen, what I lack in ability and gracefulness, I will try to make up in work and earnestness. We have had a very profitable meeting. I hope you will all come down to Atlanta next year. You will find no longer any memories of Mason and Dixon's line; but a warm, Southern welcome. Come.

At 11:30 A. M., Friday, June 12th, the Association adjourned until next year in Atlanta.

SOME OF THOSE PRESENT.

In the absence of an official register of those in attendance at the convention, the registers of five Detroit hotels were resorted to for a list of names which follows; but it is known that there were others present, and it is hoped that the register to be provided by the secretary hereafter will furnish a complete list:

William A. Abel, New York; George Achelis, West Chester, Pa.; E. Albertson and wife, Bridgeport, Ind.; N. H. Albaugh, Phoneton, O.; B. F. Allen, Rochester, N. Y.; American Tag Co., Chicago.

Leon Barbier, Orleans, France; Prof. L. H. Bailey, Ithaca, N. Y.; C. E. Baldwin, Augusta, Mich.; A. D. Barnes, Waupaca, Wis.; R. C. Berckmans, Augusta, Ga.; F. F. Bernard, A. F. Bernard, Painesville, O.; W. C. Barry, W. C. Barry, jr., Charles J. Brown, Rochester, N. Y.; C. A. Bennett, Elizabeth, N. J.; H. L. Bird, Benton Harbor, Mich.; Blair & Kaufman, Kansas City, Mo.; Nelson Bogue, Batavia, N. Y.; V. Bogue, Albion, N. Y.; Arthur G. Babcox, Cleveland, O.; C. Betscher, Canal Dover, O.; L. G. Bragg and wife, Kalamazoo, Mich.; Guy A. Bryant, Princeton, Ill.; A. J. Brown, Geneva, Neb.; M. Butterfield, J. S. Butterfield, Lee's Summit, Mo.; E. P. Bernadin, Parsons, Kans.

C. W. Carman, Lawrence, Kans.; Andre L. Causse, New York; Central Michigan Nurseries, Kalamazoo, Mich.; J. M. Charlton, Gilbert Costich, Rochester, N. Y.; John C. Chase, Derry, N. H.; R. J. Coe, Fort Atkinson, Wis.; W. B. Cole, Painesville, O.; H. W. Collingwood, New York; E. W. Chattin, Winchester, Tenn.; Henry B. Chase, R. C. Chase, Huntsville, Ala.; M. J. Crow, Louisiana, Mo.; J. H. Clark, Fredonia, N. Y.; W. J. Campbell, jr., St. Joseph, Mo.

Joseph Davis and wife, Baltimore; John Day, Fremont, O.; E. T. Dickinson, Chatenay, France; S. Dougherty, Knoxville, Tenn.; J. H. Dayton and wife, Painesville, O.; J. F. Donaldson and wife, Warsaw, Ky.; T. J. Densmore, Tippecanoe City, O.

F. C. Edwards, Fort Atkinson, Wis.; Elliott Addressing Machine Co., Boston.

F. E. Freeman and wife, Phoneton, O.; T. J. Ferguson, Milwaukee, Wis.; Charles Fremd, Rye, N. Y.; S. R. Fergus, Tippecanoe City, O.; A. H. Fewkes, Newton Highlands, Mass.; M. B. Fox, Rochester, N. Y.; Foster & Griffith, Fredonia, N. Y.

F. D. Green, Perry, O.; Charles E. Greening, Monroe, Mich.; T. E. Griesa, Lawrence, Kans.; T. M. Grizzard, Winchester, Tenn.; Robert George, Painesville, O.; J. W. Gaines, Xenia, O.

J. H. Hale, South Glastonbury, Conn.; N. W. Hale, Knoxville, Tenn.; J. C. Hale and wife, Winchester, Tenn.; Orlando Harrison, Berlin, Md.; F. M. Hartman, Dansville, N. Y.; C. H. Hawks, Horace Hooker, Rochester, N. Y.; W. F. Heikes, Huntsville, Ala.; J. K.

Henby, Greenfield, Ind.; Arthur H. Hill, Dundee, Ill.; W. L. Hart, Fredonia, N. Y.; C. W. Hoffman, Dayton, O.; Abner Hoopes and wife, West Chester, Pa.; G. H. Havekoot, Monroe, Mich.; Charles Howard, Riverside, Cal.; D. H. Henry, Geneva, N. Y.; J. J. Harrison, Painesville, O.; J. W. Hill, wife and son, Des Moines, Ia.

Charles A. Ilgenfritz, T. E. Ilgenfritz, F. L. Ilgenfritz, W. F. Ilgenfritz, Monroe, Mich.; J. M. Irvine, St. Joseph, Mo

Irving Jaquay, Benton Harbor, Mich.; Hiram T. Jones, Elizabeth, N. J.; C. H. Jooston, New York; George S. Josselyn, Fredonia, N. Y.; Prof. W. G. Johnson, New York; Alfred Jervis, Bridgeport, O.

Harlan P. Kelsey, Boston; John S. Kerr, Sherman, Tex.; E. W. Kirkpatrick, McKinney, Tex.; Henry C. Klehm, Arlington Heights, Ill.; B. F. Kean, Stanley, N. Y.; W. F. Knapp, Monroe, Mich.; H. Kohankie, Painesville, O.

D. S. Lake, R. S. Lake, Shenandoah, Ia.; J. F. Lee, Rochester, N. Y.; Samuel Lorton, Davenport, Ia.

Jacob W. Manning, Benjamin F. Manning, Reading, Mass.; G. A. Marshall, Arlington, Neb.; Daniel T. McCarthy, Lockport, N. Y.; J. Horace McFarland, Harrisburg, Pa.; J. McHutchinson, New York; James McVitty, Perry, O.; Thomas B. Meehan and wife, Dreshertown, Pa.; F. W. Meneray, Crescent, Ia.; J. C. Miller, Rome, Ga.; J. B. Morey, jr., Dansville, N. Y.; E. Morris, Fonthill, Ont.; David L. Morris, E. C. Morris, Brown's Nurseries, Ont.; C. J. Maloy, Rochester, N. Y.; Kenneth Morton, Richmond, Va.; M. McDonald, Salem, Ore.; C. J. McCormick, Monroe, Mich.; C. W. Metcalf, East Cleveland, O.

F. B. Nelson, Paw Paw, Mich.

Ralph T. Oleott, E. B. Olver, Rochester, N. Y.; P. Ouwerkerk, Jersey City, N. J.

D. H. Patty, Geneva, N. Y.; P. D. Pearce, Grand Rapids, Mich.; Wilson J. Peters and wife, Troy, O.; G. E. Prater, jr., Paw Paw, Mich.; E. H. Pratt, Fredonia, N. Y.; Charles M. Peters, Snow Hill, Md.; William Pitkin, C. H. Peck, Rochester, N. Y.; George C. Perkins, Newark, N. Y.

F. T. Ramsey, Austin, Tex.; W. C. Reed, Vincennes, Ind.; August Rhotert, August Rölker, Joseph E. Rölker, New York; Lewis Roesch, Fredonia, N. Y.; F. E. Rupert and wife, Seneca Falls, N. Y.; Irving Rouse, Rochester, N. Y.; E. Runyan, Elizabeth, N. J.; John Reichert, Newton Highlands, Mass.

G. W. Sallee, J. W. Schuette, St. Louis; W. N. Scarff, New Carlisle, O.; Albert A. Schulze, Brussels, Ill.; E. M. Sherman and wife, Charles City, Ia.; R. A. Simpson, Vincennes, Ind.; Theodore J. Smith, D. H. Sears, Geneva, N. Y.; Prof. John B. Smith, New Brunswick, N. J.; F. H. Stannard, Ottawa, Kan.; William P. Stark, Louisiana, Mo.; C. W. Stuart, Newark, N. Y.; George A. Sweet, Dansville, N. Y.; P. A. Shadow, Winchester, Tenn.; George C. Seager and wife, Edward J. Seager, Rochester, N. Y.; John T. Stinson, St. Louis; Robert C. Stoehr, Dayton, O.; Stecher Lithographing Co., Rochester, N. Y.; F. O. Schroeder, Chicago.

H. S. Taylor, Rochester, N. Y.; Walter Truitt, Chanute, Kan.; L. R. Taft, Lansing, Mich.

P. J. Van Heiningen, New York; J. Van Lindley, Pomona, N. C.; J. H. Wallace, Shenandoah, Ia.; C. L. Watrous, Des Moines, Ia.; F. W. Watson & Co., Topeka, Kan.; F. A. Weber, St. Louis; E. S. Welch and wife, Shenandoah, Ia.; West Michigan Nurseries, Benton Harbor, Mich.; S. E. Wheelock, Fredonia, N. Y.; Frank B. White, Chicago; George H. Whiting, Yankton, S. D.; E. Willett, North Collins, N. Y.; Allen L. Wood, wife and sons, Rochester, N. Y.; F. G. Withoft, Dayton, O.; Thomas J. Wade, Newark, N. Y.; Stella Louise Winchester, St. Joseph, Mich.; C. W. Ward, Queens, N. Y.

C. L. Yates, Rochester, N. Y.; John A. Young, Greensboro, N. C.; Peter Youngers, Geneva, Neb.

CONVENTION NOTES.

The Maryland grower who bought 1,000,000 apple seedlings in January was busy receiving congratulations.

Nurserymen's Mutual Protective Association officers: President, N. H. Albaugh; secretary, George C. Seager.

Lack of space prevents the use, in this issue of the NATIONAL NURSEYMAN, of several of the papers presented at the convention.

Prof. W. G. Johnson, New York, has been offered the presidency of an agricultural college in the West. He is associate editor of the American Agriculturist.

Next to the pleasure of attending the convention, and renewing and forming acquaintances, is that of reading the proceedings by the stay-at-homes and seeing what they missed.

A resolution regretting the absence of Edgar Sanders, of Chicago, one of the oldest members of the Association, and its first president, was directed to be sent to him by the secretary.

The warmth of the Detroit convention sessions contrasted with the low temperature during June 10th-12th, shows that the weather has little to do with the matter, after all. So, here's to Atlanta!

So earnest and active was the administration of President Ilgenfritz that he was asked to allow his name to be presented for re-election; but he declined, saying that he believed the honor should be passed around.

"Hang on to your watch; it may be taken," shouted M. B. Fox, of Rochester, just as the photographer opened the shutter in front of the group facing the park, which caused Herman Berkhan, of New York, to smile broadly.

Invitations to hold the convention next year in St. Louis were received, through F. W. Taylor, from Hon. Rolla Wells, mayor; Hon. D. R. Francis, president of the Exposition, and Hon. C. P. Wallbridge, president of the St. Louis Business Men's League.

Pleasure trips were made by many of the nurserymen Wednesday and Thursday afternoons, June 10th and 11th, to Mr. Berry's grounds and to Belle Isle. Both trips afforded opportunity to enjoy landscape at its best. The cool weather tempered the enjoyment somewhat.

R. C. Berckmans received the following despatch at Detroit, June 11th, from J. K. Orr, Atlanta, Ga., president of the Greater Georgia Association: "Congratulation on securing the convention for Atlanta. Assure the members of our gratification. They will be cordially received."

American Mutual Protective Association officers: President, William Pitkin; vice-president, A. L. Brooke; secretary, Thomas B. Meehan; treasurer, Peter Youngers; executive committee, William Pitkin, ex-officio; Charles J. Brown, D. S. Lake, Mr. Taylor of Topeka, John S. Kerr, Herbert A. Chase, J. H. Dayton.

"I wish the Society of American Florists could witness the manner in which the American Association of Nurserymen discuss practical topics pertaining to the trade," remarked a member of the Florists's national society at Detroit. "The sessions were replete with business ideas ably discussed, and in my opinion such discussions count for much more than social functions."

CALIFORNIA'S NEW LAW.

The California legislature has passed a bill which has become a law, providing for the appointment by the governor of a state commissioner of horticulture, who may establish quarantine regulations regarding the entry of nursery stock and fruit into the state, this law repealing the law of 1901. Provision is made for recognition of authority regarding inspection that may be established by a federal law.

SAMPLE CALIFORNIA REPORT.

William Barry, horticultural commissioner for Alameda county, Cal., in his recent report to the supervisors says:

Since my last report the movement of nursery stock has commenced in this district and the output has been more satisfactory than was at the beginning anticipated. The nursery stock arriving has been in much better condition and the quantity much greater than in former years. The number of stocks handled at this station to date, both fruit and ornamental, is 384,547 and the number of certificates issued 458.

The first ripe peach in Fort Valley, Ga., this year was picked on May 11th.

THE COST OF A TREE

Question of Great Importance, Says George A. Sweet—Many Things to be Considered—Smaller Growers Need Strengthening in this Matter—Discussion.

One of the most practical of the discussions at the Detroit convention was that upon "The Cost of a Tree," led by George A. Sweet, of Dansville, N. Y. He said :

I don't know what it costs to grow a tree ; but I can see that if we knew, it might be of commercial value. Of course no two blocks of trees ever cost the same. First-class trees in one block are not the same as first-class trees in another block, and no season is exactly like another. There are so many elements to be considered in tree production that the result is a sort of a lottery. There are certain staple elements as, for instance, the cost of the foreign stock. But then there are the varying losses. It has occurred to me that we might open a debit and credit account with a certain block of stock. If the smaller growers particularly would keep such an account, so that they could know that it cost ten cents apiece to grow a block of trees, it would make more stable the market value of a tree. If a man knows that a tree cost ten cents he will be less likely to sell it at nine cents than if he was merely guessing. It is the smaller grower who needs strengthening as to the price. In other lines of business accounts are kept, so that it is not a matter of guess work. I know that in our business you cannot always tell where the loss ends and the profit begins. It would be of immense advantage to us if we could tell. I propose to make some experiments on this line that I have never made. And it is just such practical work as this that a national body of this kind should discuss.

W. F. Heikes, Huntsville, Ala., said :

It is to be borne in mind, of course, that the question is, what is the least cost of producing the best tree ? From my point of observation, it seems to me that the many obstacles that must be overcome from year to year, and the constant vigilance required from the time of planting the seed until the time of marketing, would justify the answer that the cost of a tree is the price of the nurseryman's life. If the tree has been well cared for, it is worth the price. It is better to consider the collective results hoped to be attained as a basis of operation than to figure upon the exact cost of a tree. Before beginning business, a nurseryman should feel confident that he possesses some advantage in producing and handling his crop over growers in the same line of production. These advantages may be in location, the congeniality of climate, in the cost of lands, or rents, or labor, or the quality of the soil, or in the fitness and training of the man himself. So much depends upon his judgment in the arrangement of his plans and in his courage, energy and untiring purpose in pursuing them to their fulfillment. When once it is proven that he possesses these advantages to a sufficient degree, he should follow them up with a free use of his capital and to the limit of his ability. The seller of any article must have an advantage over another producer of the same article to command a buyer. The buyer is forced to pay on an average more than the cost of production, and it is upon this margin that the seller depends for his profits.

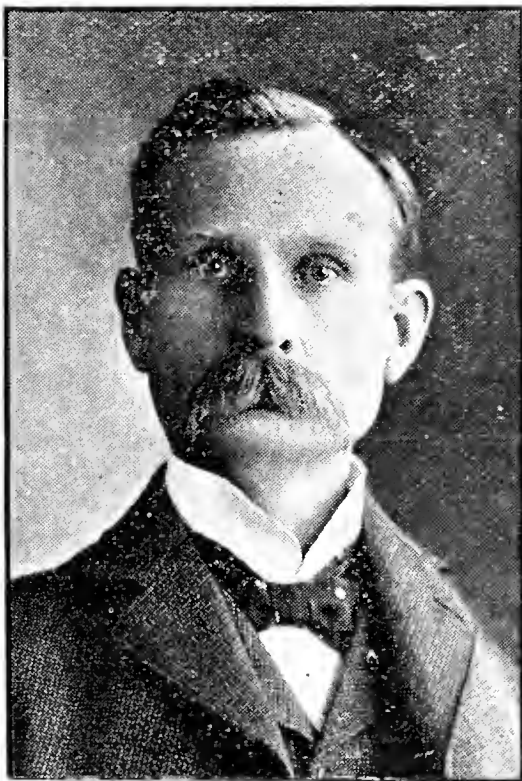
Mr. McFarland described his system of keeping account of each printing job. He suggested that a committee be appointed and that twenty-five nurserymen be asked to present plans. "When you know the cost and act accordingly," said he, "prices will go up and never come down. When you have the cost of tree production cut down you will get just as much out of a block of 200,000 as you do otherwise out of 800,000."

Orlando Harrison, Berlin, Md., said : "The cost of a tree once could be estimated by the cost of seed or seedlings and propagation. At this day it depends on the entomologist and inspector in the state in which it is grown and sold. First, we must ask each entomologist in the different states what constitutes a merchantable tree, as each state makes a different law at almost every legislative session, in accordance with the views of the entomologist of the respective states. The question as to the cost of a tree is absolutely out of the nurseryman's calculation and will never be answered until we have a uniform law."

President Hale later said he would announce the committee on the cost of a tree, in the near future.

PRESIDENT HALE.

We present herewith a likeness of President Nathan W. Hale, of the American Association of Nurserymen, a sketch of whose active career appeared in volume VIII of the NATIONAL NURSERYMAN when he was vice-president of the American Association. His prominence as president of the Knoxville Nursery Company, the Southern Nursery Company, the Southern Nurserymen's Association ; as assemblyman and senator of his state ; as candidate for governor and recently for congress ; as director of the East Tennessee National Bank and member of the firm of Brown, Payne, Deaver & Co., Knoxville, and in other business interests is known to his many friends. As before stated, he started in life with his hands, his integrity and his talent as capital. He has bravely won and has demonstrated the possibilities before every young man.



PRES. NATHAN W. HALE,
American Association of Nurserymen.

The American Association is sure to be benefited by the guidance of a man of Mr. Hale's ability. It is probable that he will represent his state in congress after the next election, and may be in Washington officially to greet the legislative committee of the American Association when occasion demands.

AMERICAN FRUIT IN LIVERPOOL.

C. M. Hooker & Sons, Brighton, N. Y., on May 28th received advice that on the previous day in Liverpool, England, the Brighton firm's consignment of Baldwin apples was sold through W. N. White & Co., New York, as follows : 533 barrels No. 1 apples at \$6.25 per barrel ; 132 barrels No. 2 apples at \$5.50 per barrel.

Messrs. White & Co. report that the success of this sale so late in the season, May 27th, was due to the care taken in packing and shipping at every point in the long journey. The fruit was repacked and pressed tightly by Messrs. Hooker & Sons, and was shipped in iced cars to seaboard. Then it was put aboard steamer in a refrigerating chamber and was placed on the market in England promptly, and was disposed of while in fine condition.

N. F. Murray, Oregon, Mo., has sold his nursery interest to his partner, S. N. Bucher, and will engage in fruit growing.

The National Nurseryman.

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ROCHESTER, N. Y., JULY, 1903.

AMERICAN ASSOCIATION OF NURSEYMEN.

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Committee on Program—J. H. McFarland, Harrisburg, Pa.; Harlan P. Kelsey, Boston; Charles A. Ilgenfritz, Monroe, Mich.
Committee on Publicity—Ralph T. Olcott, Rochester, N. Y.; Orlando Harrison, Berlin, Md.; Prof. W. G. Johnson, New York City.
Committee on Exhibits—R. C. Berckmans, Augusta, Ga.; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.
NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.
EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, A. L. Brooke, N. Topeka, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.
SOUTHERN NURSERYMEN'S ASSOCIATION—President, John C. Miller, Rome, Ga.; secretary, J. C. Hale, Winchester, Tenn. Meets at Winchester, Tenn., in August, 1903.
SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.
PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, A. Miller, Portland, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Organized at Portland, Ore., January, 1903.

OREGON ASKS FOR 1905 CONVENTION.

A cordial invitation was extended to the American Association of Nurserymen at Detroit to meet in 1905 in Portland, Oregon. It came from the Pacific Coast Association of Nurserymen, whose meeting was held on the day that Mr. McDonald, of Salem, Ore., started for Detroit. He was asked to present the invitation which was formally tendered by the secretary of the Association, Albert Brownell, Albany, Ore.

Mr. McDonald said he believed that the nurserymen of the East would be profited by a visit to the Pacific coast, especially at a time when evidences of the progress of the West would be exhibited as at the Lewis & Clark Exposition. He said the nurserymen of the East would modify their opinion of western horticultural laws and regulations if they would visit that section of the country.

THE AMERICAN ASSOCIATION.

In many respects the twenty-eighth annual convention of the American Association of Nurserymen, in Detroit last month, was the most important. Never before have practical nursery topics so predominated, and the result was the setting on foot of several projects that promise to be of immediate and permanent benefit to the Association.

President Ilgenfritz in his annual address advocated the raising of the dues to \$5, so as to provide an adequate fund for vigorous work, and he called attention to the advisability of investigating fire insurance rates as applied to nursery property. Both of these matters were referred to committees.

The drastic laws in the Virginias affecting nursery agents, reference to which was made in the June issue of the NATIONAL NURSERYMAN, were discussed and the subject was referred to the legislative committee to contest the constitutionality of these laws in a test case. Work for the state vice-presidents was laid out in a motion that they be empowered to appoint committees in each state, the state vice-president in each case to be chairman; matters of interest, such as legislation, to be reported to the other state vice-presidents. The secretary was directed to provide a book in which the members are to register upon arrival at the conventions, the badges and badge books to be distributed upon registry by the members. A standing committee on exhibits was authorized and appointed. It was proposed that hereafter one or more executive sessions of the Association be held at convention time. The Association decided to break away from the custom of following the great expositions and will hold its next convention at a point where it is expected there will be no strong counter attraction. This seems to be an excellent plan, though it may affect the attendance somewhat.

As usual the question box provoked discussion as often as it was opened; but the supply of questions was not large. It is probable that the program committee will find it necessary to make definite provision for supplying the question box, as has been found necessary with regard to other features of the program.

There is still room for improvement in two directions. Although the program committee limited the speakers as to time, several of the papers presented were too long. The attendance at the sessions is improving, but it is still below what it

should be. As the program becomes more attractive it is believed its value will be appreciated.

In the absence of what is found necessary in some conventions, a committee on credentials, it is suggested that upon important questions at least the votes should be taken by roll call of members present; and this can readily be done by reference to the register which has just been provided for. That register should be arranged alphabetically, so that if it is desired at any time by any member or officer to know whether a nurseryman is at the convention, the secretary can give the information in an instant.

The Detroit convention was generally considered a most successful one. Let the enthusiasm continue and increase at Atlanta.

SOME VISITING TOURS.

During and after the convention at Detroit there were several trips by nurserymen and their wives to neighboring nursery establishments and other points of interest.

E. S. Welch and wife, M. McDonald, Joseph Davis and wife, E. M. Sherman and wife, R. S. Lake, W. C. Reed and wife, Mr. Brown, of Youngers & Co., Orlando Harrison and a number of others went to Painesville, O., and visited the extensive nurseries of Storrs & Harrison Co., receiving every courtesy at the hands of this firm. They were much interested and instructed. They also visited the nurseries of L. Green & Son Co. at Perry, O., where they found a surprisingly large acreage of roses. Peaches and pears are also a specialty there.

W. E. Beaudry, Chicago; M. McDonald, F. H. Stannard, Orlando Harrison, R. S. Lake and others visited Rochester after the convention and called at nurseries there.

A party of fifty or more nurserymen went to Monroe, Mich., June 12th, and was shown about the nurseries of I. E. Ilgenfritz' Sons and Greening Brothers. The following resolutions express their sentiments:

WHEREAS, The American Association of Nurserymen has just closed one of the most profitable and pleasant sessions in its history; and

WHEREAS, Its members realizing that the pleasure and success of the 1903 meeting is due largely to the untiring efforts of its worthy president, Mr. C. A. Ilgenfritz, and the courtesy and kindness of Messrs. Ilgenfritz' Sons, and Greening Brothers, of Monroe, Mich.; and

WHEREAS, We have greatly enjoyed the drive over their extensive plants at Monroe, Mich., and the liberal hospitality of these gentlemen shown us while visiting their beautiful city, it is hereby

Resolved, That the sincere thanks of the members here assembled be tendered the above mentioned gentlemen for their courtesy and hospitality. We compliment them upon their extensive plants, and extend herewith our best wishes for their continued prosperity, which they so richly deserve.

J. W. HILL,
F. D. GREEN,
F. H. STANNARD,

Committee.

James M. Kennedy, Dansville, N. Y., writes under date June 19th: "The following nurserymen made Dansville nurserymen a visit last week: W. E. Beaudry, Chicago; E. P. Bernardin, Parsons, Kan.; F. H. Stannard, Ottawa, Kan.; A. J. Brown, Geneva, Neb.; George A. Marshall, Arlington, Neb.; W. F. Heikes, Huntsville, Ala.; J. L. Preston, M. J. Crow, Louisiana, Mo.; E. S. Welch, Shenandoah, Ia."

DAMAGE IN THE WEST.

Kansas Crop of Apple Seedlings Practically Destroyed—Apple Trees Also Badly Damaged—Advance in Prices Will Result.

LAWRENCE, Kan., June 19.—A. C. Griesa: "My Apple and Pear seedlings were destroyed by the flood."

NORTH TOPEKA, Kan., June 18.—Peters & Skinner: "We are now out of the seedling business except for a few Osage, Catalpa and Pear seedlings. Practically all our Apple and Mahaleb seedlings were lost in the flood. Our two-year Apple were not under water and we lost only about twenty-five per cent. of our grafts; also lost some budding stock. The loss to nurserymen in the valley is very heavy, some losing nearly everything they had."

OTTAWA, KAN., June 22.—A. Willis: "Answering your inquiry about the results of the high water in Kansas to the nursery business, I would say I think the results are very serious, according to the information I have. I think the plant of apple seedlings at Topeka is greatly larger than at any other one place in the country. I have sometimes heard it claimed that half of all the apple seedlings in the country were grown at Topeka. I presume this claim would not be justified by facts; but in any case, from all I hear, nearly all that were growing at Topeka are destroyed this year."

"The nurserymen of Topeka are also perhaps the largest growers of apple trees of any in the country, and this crop also is very badly damaged. The loss may not be total, but there will be but little left, and that means for the crops of 1903 and 1904, both. The nurserymen of Topeka are also large growers of nursery products in other lines and of these nearly all is gone; also, as I understand, the large plant of Messrs. R. H. Blair & Co. at Wilder, Kan., is destroyed. I suppose that other losses of less amount have been suffered, but I do not know much about that. Here in Ottawa our plants that are growing have not suffered injury to any serious extent. I think the trade will feel the effects of this in a large degree in the advanced price of apple seedlings and in some measure in the advanced price of apple trees, and perhaps in some degree in the price of other lines of nursery stock."

"As to the condition of the sufferers, some of these men were getting up towards a condition of comfort. Few, if any, had reached a place where they could meet such a loss without severe suffering and great difficulty for some years to come. The nurserymen of Ottawa had some interests in the growing crops at Topeka, and to that extent we are sufferers with those who live there."

APPLE SEEDLINGS SCARCE.

Estimates at the Detroit convention regarding the stock of apple seedlings were to the effect that owing to the western floods and other causes there was from seventy-five to eighty per cent. of loss on apple seedlings, and that the supply was practically exhausted. First-class apple seedlings were offered at from \$7 to \$9 per thousand.

No natural peach seed from the South was offered this year and what little was to be had at the North was quickly taken up.

IN THE KAW VALLEY.

N. TOPEKA, KANS., June 25.—A. L. Brooke: "Your request for a report on flood conditions reached me promptly, and found me wondering where I was at.

"I had thought of writing THE NURSERYMAN before receiving your letter, and in that way answer many questions asked of me privately.

"Personally I was greatly disappointed in not being able to meet my many friends at Detroit. The valley of the Kaw had almost a national reputation for its fertility and productivity. It now has added reputation, not so enviable it is true, but perhaps greater.

"On the evening of May 28th, I pulled for high land with my family and live stock. I went none too soon. Those who remained until morning would have given gold for the rescue which money could not purchase.

"Then the battle for life was on, and for two or more days strong arms and gallant hearts fought the waves of great lakes of water and fierce currents of mighty rivers, and brought to land hundreds of people out of the mad waters.

"There are times that try men's souls. We have had one of them. Those were awful days and nights.

"St. Joseph, Mo., Horton, Holton and other smaller cities, far away, were our near neighbors in help, with Topeka just across the channel as remote as Chicago.

"Think of a brisk little city of 6,000 or 7,000 people buried in the waters in one short night. Its streets had in this time become rivers; not placid streams where boats could glide gently, but fierce, mad currents filled with the debris of cities, floating houses, drowned animals, tangled in places with a network of wires through which no boat could go and live. Well-to-do men retired that night to find themselves bankrupt on the morning of the 29th of May.

"The town was not alone. Between Indian creek and Soldier creek, outside the city limits, 76 families left their homes. Some of these lost even their farms.

"When convention time came, I found myself one of the principal agents for free lunch stands, scattered among God's best people on the uplands north of town. To have gone anywhere else at that time would have been moral cowardice.

"For several days I did not hear anything from J. H. Skinner of Peters & Skinner, but when I did I had a confirmation of what I already knew he would do. Everything he could do was done for a suffering people just as he does everything else—in the most earnest and thorough way possible.

"What, you ask, is the condition of the nurserymen of Topeka? We have been so busy we have no inventory of losses. Mr. Skinner I think will have something accurate very soon. Personally, I am out of the market with everything. My spring plant of grafts escaped with the exception of a few acres. I hope to have the bad scars all healed within a year or such a matter. Out of a plant here of 550 bushels of apple seed the product of only about 100 is all that is left. The most fortunate one was F. W. Watson & Co., with a plant of some forty acres or more of fine apple seedling.

"I have no means at present of knowing just what is left of other stock. I can say, though, that so far as Topeka is concerned the glut of the market will not come from this source.

"We have all been well shaken up, but are not sore after the shaking. The people are all too busy to get despondent, and their pluck and faith prove them a brave people. A few years and all their sorrows will be forgotten and their fortunes will be repaired."

INTRODUCING NOVELTIES.

Has an Element of Humor, Says Prof. Bailey—Nine Tenths of the Novelties Do Not Represent Progress—The Whole Question of Varieties—Many Good Old Ones.

The subject of Prof. L. H. Bailey's address before the American Association of Nurserymen at Detroit was "The Whole Question of Varieties." He admitted that the subject covered a very extensive field of discussion and reassured his hearers when he stated that he did not in his address expect to solve the whole question of varieties, but only to state some important and troublesome aspects of it.

The Variety-Conception.

He showed that the variety-conception is really a late idea in the development of the human race. He said:

It is practically only within the past two centuries that cultivated varieties of plants have been recognized as being worthy of receiving designative names. It is within this period, also, that most of the great breeds of animals have been defined and separately named. All this measures the increasing intimacy of our contact with domesticated plants and animals. It is a record of our progress. The people that are most advanced in the cultivation of any plant are the ones that have the greatest number of named varieties of that plant. In Japan, to this day, the plums often pass under ill-defined class-names. We have introduced these classes into this country, have sorted out the particular forms that promise to be of value to us, and have given them specific American names. Not long ago a native professor of Japan wrote me asking for cions of these plums, in order that he might introduce Japanese plums into Japan. The Russian apples are designated to some extent by class names. What constitutes a variety is increasingly more difficult to define, because we are constantly differentiating on smaller points. The growth of the variety-conception is the growth of the power of analysis.

The New Plant Breeding.

Continuing Professor Bailey said:

We are at the beginning of a new era in plant-breeding. We are not only doing more actual work in breeding than we have done before, but the purposes that we have in mind in attacking the problems are different from the old. It is of no consequence either to produce or to introduce a "new variety"; but it is of immense consequence to produce a line of plants having superior efficiency for some special purpose. Plant-breeding is worthy of the name only as it sets definite ideals and then works towards them with predictable assurance. Merely sowing seeds to see what will turn up is not very different, so far as the probabilities of results is concerned, from the throwing of dice. We are to breed not so much for merely new and striking characters, that will enable us to name, describe and sell a "novelty," as to improve the performance along accustomed lines. It may be worth while to produce a "new variety" of potato by raising new plants from the seed-bolls; but it is much more to the point to augment the mealiness of some existing variety or to intensify its blight-resisting qualities. It may be worth while to have another large red apple, but it would be much more worth the while to have one of better quality for export. It is possible to secure a five or ten per cent increase in the efficiency of our field crops; this would mean the annual addition of hundreds of millions of dollars to be national gain. It is possible, also, to increase the efficiency of every kind of fruit and flower.

In all the short-generation plants, that are grown from seeds and without the interposition of budding or grafting, it is relatively easy to augment the efficiency-points. This augmenting is accomplished by selection from individual plants of merit, quite independently of the particular variety to which these plants belong. When the final result is attained, the race may not differ from its ancestors in outward describable characters, but it may be more efficient in quality, in yield, in chemical content, in disease-resisting or drought-resisting qualities.

Has it ever occurred to you that the practice of "introducing" novel-

ties has an element of humor? It reminds me of the debut that the young woman makes into society, with all the fanfaronade of new bonnets and shiny ribbons and writeups in the newspapers. And the next year the debutante is forgotten and others take her place. Now and then a woman comes into recognition for her womanly traits or her good deeds or her strong personality, and when we look up her history, behold! she was never "introduced" at all!

Now I believe in "novelties." There are essays of mine in your proceedings to attest that fact. Without novelties there is no progress. But we must all be cognizant of the fact that nine-tenths of the red-ink novelties never "stiek." Certainly these nine-tenths do not represent progress. Now, it is a fact that the people are suspicious of novelties. Who buys the new apple or the new pear or the new tomato that has every merit and lacks every fault? Does the experienced planter put out a farm of them, that he may reap the rewards thereof? Or does the cautious buyer and the amateur here and there buy sparingly to see what they are like?

I sometimes wonder whether we are not in a transition epoch in our horticulture, when "something new" seems to be the end of our desire and effort. And are we not going to pass this epoch before long, and come into a real love of good plants, whether they are as old as the hills or as new as tomorrow? Then, again, I sometimes wonder whether the novelty-feature really does represent the tastes and desires of the people. Everywhere I find persons wanting the good old things, that never lose their face-powder and that are hallowed by every sweet memory; but if one wants to buy them he must search patiently through the fine print in the catalogues. Now, I believe that every good novelty should be advertised for "all there is in it"; but the difficulty is that there are so many novelties with such superb par-excellencies that no one knows how or when to discriminate. This playful skit I make with no feeling of criticism and with no thought of laying any blame on the catalogue-man, but only to call your attention to a tendency of the times that I believe is overworked. May not an over-exploiting of novelties stand in the way of really introducing and establishing new varieties.

Many Good Old Varieties.

I believe that there are more good varieties in existence at this moment than any one is aware of. It might be as great a service to disseminate and test these as to produce more new varieties. Many of these are no doubt old varieties, but which, for one reason or another, have not become known as their merits deserve. How to bring the existing varieties, whether new or old, into the full recognition of their merits, is one of the most perplexing questions with which the plantsman has to deal. Experience has proved that more advertising will not accomplish it. There must be some large means of co-operative investigation.

As one suggestion looking toward the solution of this difficulty, Professor Bailey gave an account of the "Volunteer Orchard" movement that was started in New York this last

spring. To the request for trees, the nurseryman responded with good liberality and good will, as, indeed, he expected they would. Only a few plantations were actually made, however, as it was desired to begin the work on a very small base and let it grow naturally, if there is any growth in it.

Recapitulation.

In conclusion Professor Bailey said:

The upshot of all this speech is, therefore, this: (1) "Varieties," as we now think of them, may not be finalities. We may come to the time when sub-varieties or strains of varieties are the things to be coveted; in fact, this time has already come for some horticulturists (with the truck-gardeners, for example) who want "market gardener's private stock" and other kinds of sub-strains. (2) We are to give increasing attention to the great fact that plants, as well as persons, have individuality, and that we must exercise careful judgment in choosing the plants from which we take layers, cuttings, buds and cions. (3) That the merit of a variety does not inhere solely in itself,

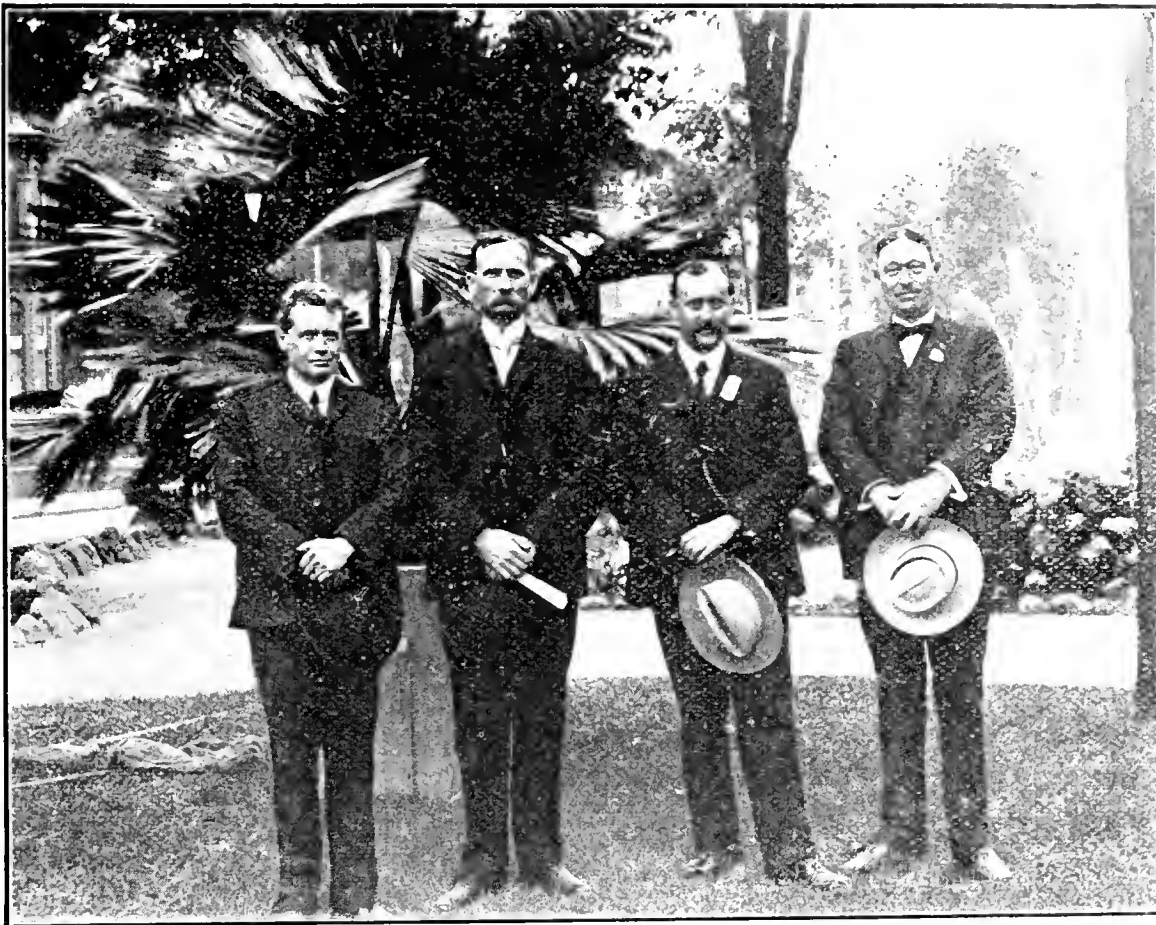
but is in part the creation of the conditions under which it continues to be grown. (4) That we have no sufficient means for the establishing and proving of varieties, in order to determine the real merits and the real limitations of them; that the practice of the "introducing" of "novelties" is only a present custom, maintained as a matter of trade, and that in the long run more careful and conservative methods must obtain.

George A. Sweet—"All nurserymen are interested in the practical side of this subject. In the case of a Crawford orchard the practical nurseryman must select buds from a bearing tree to get the best strain of that variety. We go to Mr. Hale and ask for such buds. We get them. Next year must we go

to Hale for more buds or can we take buds from the tree we have grown? If so, where is the limit? Are all going to breed true to name?"

Prof. Bailey—"Upon that hinges the feasibility of the whole scheme. I confess I cannot answer the questions. The professor comes with a more or less theoretical plan. We may in time work it out practically. It is best to go back every ten years to the original tree. One reason why the Crawford is running out is because we are propagating from so many strains. We are thinning out our dairy herds by the application of the Babcock test. I wish we could apply a Babcock test to our orchards."

J. H. Hale—"Many of you have read of the law suit against a member of this Association on account of a sale of Gravenstein apples. I have been in the orchard in question and have seen the trees that came from Massachusetts, New



SECRETARY SEAGER.

VICE-PREST. WEBER.

PRESIDENT HALE.

TREASURER YATES.

OFFICERS OF AMERICAN ASSOCIATION OF NURSERYMEN.

[Photograph by Prof. W. G. Johnson, of American Agriculturist and published by courtesy of Orange Judd Co., New York]

York and Pennsylvania nurseries. I have no doubt that all are Gravenstein apples, but only a few bear. A loss of several thousand dollars has been caused to the nurserymen in question. I believe if they had propagated from trees of known value they would not have suffered this loss. I do not want to plant a tree that I do not know about."

A Voice—"Then we will have to charge more for our trees."

Charge More for Trees.

Mr. Hale—"That's all right. Charge more. A generation is growing up that wants that kind of trees. There is too much cheap tree selling. Let the nurserymen charge more for their trees and exercise care in growing them."

Mr. Watrous—"A man in Iowa may send to Prof. Bailey for New York buds and may grow them under different conditions as to soil and climate and have poor luck with them."

John S. Kerr—"I am planting a large test orchard in Texas on the lines laid down by Prof. Bailey and Mr. Hale. Crawford Early is a failure in the Southwest, Chinese Cling varieties are on the improvement. We have discarded Crawford. For the local market Chinese Cling seedlings are coming to the front. Elberta, Mamie Ross and others are doing well. I believe there is slow gain in breeding from bearing trees, but we should do it."

Mr. Kirkpatrick—"I regret to hear my friends discussing an advance of but two cents per tree. I think that instead of sending out Elbertas at three cents apiece, we should send them out at \$3 apiece. We have the Japanese, the Chinese, the Spanish and the American strains. Let us combine them and produce a new variety altogether. Let us throw away the old varieties and instead of trying to improve them, let us have a new variety."

Mr. Sweet—"We have heard of planting bones around a Crawford tree to improve the fruit. We know that results are thus obtained. Now, do these things create individuality? Can the improvement be handed down? There are many things to be considered in this matter. The Abraham Lincolns did not come from the same family. It is rare to see great successors from great families."

Prof. Bailey—"This is an important subject. We must breed for efficiency, but no one can see the way through at the present day. These are questions that are wholly unsolved. We are on the verge of a new series of questions. Do not expect that the nurserymen are to revolutionize their practices at once. As light comes they can modify their practices. I am not ready for a law to make the nurseryman propagate from certain trees."

ARID LAND RECLAIMED BY NURSERYMEN.

The Chase Nursery Co., Riverside, Cal., control more than one thousand acres of orange trees. These orchards are owned by various companies, in each of which the Chases own a controlling interest, and may be roughly estimated as follows: National Orange Co., 500 acres; Hermosa Orange Co., 100 acres; Eureka Orange Co., 175 acres; Chase Nursery Co. and Chase Rose Co., 250 acres, making a total of 1,025 acres.

All of this land, with few exceptions, says the Riverside Press, was developed from raw, non-producing, sage brush land, planted with trees of their own propagation and brought to their present state of productiveness and taxable value, through the sole and individual efforts of this enterprising company.

Among Growers and Dealers.

F. S. Phoenix, Bloomington, Ill., son of F. K. Phoenix, has sold his business to Saddler Brothers.

Peter Barr, O. M. H., has returned to his home in England, after a tour of the world extending over four years' time. Mr. Barr is nearly 80 years old.

With a capital stock of \$40,000 the Meneray Crescent Company has been formed at Council Bluffs, Ia., to carry on the business of F. W. Meneray & Son.

The Grand Junction, Colo., Seed and Nursery Co. has been incorporated by G. J. Carpenter, John E. Moore and Frank R. Davis, with a capital stock of \$30,000.

At the semi-centennial of the California Academy of Sciences, a gold medal was awarded to Luther Burbank, for meritorious work in developing new forms of plant life.

M. J. Henry, Vancouver, B. C., reports that 100,000 fruit trees were sold last season in British Columbia by the local nurserymen, and that an equal amount of stock was shipped into that territory.

Warren H. Manning, of Boston, has been engaged as advisory superintendent to the Milwaukee park board for two years. He will supervise the improvement of Washington and Kosciusek Parks.

Charles W. Ward, president of the American Carnation Society and American Peony Society, has been appointed member of the Board of Control of the New York State Experiment Station, by Governor Odell.

The Cumberland Nursery Co., Sparta, Tenn., has been organized with a capital stock of \$10,000 and these officers: President, D. S. Pope; secretary and treasurer, William Cooper; superintendent, T. A. Pope.

Stark Brothers' Nurseries and Orchards Co., Louisiana, Mo., report that their freight aggregate for the last season shows 15,400,000 pounds and freight bills amounting to \$53,201.02 were paid. They handled 666 carloads, to say nothing of less than carload lots.

The J. M. Neil Company, of Charleston, W. Va., has been incorporated with a capital of \$10,000 to deal in nursery stock. The incorporators are: Joseph M. Neil, Robert C. Bell, James B. Menager, J. H. Stephenson and Willard H. McDougal, all of Charleston.

Through the efforts of Frederiek W. Kelsey, New York City, Collector N. N. Stranahan, at the port of New York, has given strict instructions to the deputy of one of the divisions that more care shall be exercised in that division. The matter came up in a case where imported trees were erroneously ordered into public store.

The government crop report for June states: Of the fourteen states having 5,000,000 apple trees and upwards, but two, Virginia and Tennessee, report conditions above their ten-year averages, the conditions in the other important apple-producing states ranging from two points in North Carolina to twenty-three points in West Virginia below such average.

A western paper calls attention to the announcement in a Pacific coast nursery catalogue, over the signature of the commissioner of horticulture, to the effect that "trees are free from serious insect pests and all true to name," and asks whether it is within the province of a state official to declare officially that the trees in any nursery are true to name.

The Southern Nurserymen's Association will hold its annual convention in Winchester, Tenn., August 19th. G. H. Miller, Rome, Ga., is the president; J. C. Hale, Winchester, Tenn., is the secretary. Among the features of the convention will be an excursion from Winchester to Huntsville, Ala., which will enable the nurserymen to see 6,000 acres of orchards.

Greening Bros., Monroe, Mich., report an unusually prosperous season and a dividend of more than 50 per cent. They say they had practically no surplus and completed delivery before April 20th. During the first week of April, they report, they shipped 263,000 trees in bulk, 75,000 of these going to Benton Harbor, Mich. The capital stock of \$100,000 is divided as follows: Charles E. Greening, 95 per cent.; Mrs. Charles E. Greening and Son, B. J. Greening, 4½ per cent.; R. M. Sperry and Frank Yentz, ½ per cent.

NURSERY INSURANCE.

Rates Appear to be Unreasonably High—Suggestion of Mutual Insurance Company—The Difficulties—National Organization of Mutuals—Committee to Report at Atlanta.

George C. Perkins, Newark, N. Y., presented a paper on "Insurance for Nurserymen," at the Detroit convention, in the course of which he said:

When this insurance question first came up, it was suggested to me that if reliable data could be obtained regarding the average percentage of losses sustained in the past upon nursery cellars, we might go before the National Board of Underwriters and make a showing that would enable us to secure lower rates from the old-line companies. It occurred to me also that, if unsuccessful in this, it might be possible for a few of the nurserymen to form an organization after the style of the Manufacturers Lloyds and, if so, these data would be a necessary prerequisite to that also.

With these ends in view I had considerable correspondence with a business friend in New York, an insurance broker by occupation. He is really an expert upon matters of this sort, and has access to the records of most of the old-line companies. He thought he could procure the statistics we wanted, and offered to do so for \$100.00. I wrote a few of the nurserymen to ask if they wanted to subscribe \$10.00 apiece to defray this investigation. Nearly all replied favorably and I told my friend to go ahead; but he found on attempting it that it was quite impossible to compile separate data of the losses upon nursery cellars, as there were no separate records of them, so my investigations along these lines are without result.

When I found I was expected to say something on the insurance question here, I also sent out some letters to a few of the leading nurserymen asking for information about the rates now required in their several localities upon both their own properties and, for the purpose of comparison, upon other risks of apparently no greater hazard. The information obtained has not proven very valuable, for the reason that there seems to be no uniformity of rates in different localities.

Rates Appear Unreasonable.

In a general way, however, the rates upon nursery cellars and their contents do appear to be unreasonably high. It would seem to an outsider that nursery cellars are a much safer risk than barns or other farm buildings; yet the rates upon the former are two to five times as great. The average barn always has a litter of hay, straw or some such inflammable material; has wood floors; the farmer frequently has to go to it after dark with a lantern; if he drops a match, or a spark from his pipe, or if the cow kicks over his lantern, the material for a conflagration is right at hand. The nursery cellar has a dirt floor; if burning matches are dropped on it, they go out; it is seldom necessary to go to a nursery cellar after dark, consequently lanterns or portable lights are rarely carried into them.

I have also tried to draw some comparison between the rates upon nursery stock in storage and the stock of dry goods stores. It is difficult to make a satisfactory comparison, because conditions vary so greatly and rates in different localities vary a great deal even when under about the same conditions. In general, however, the rates demanded upon nursery stock in storage average about the same as the rates upon dry goods stocks. The injustice of this is manifest. There is practically no risk of smoke and water damage upon nursery stock, whereas in dry goods stores the greater part of the damage is usually from these causes. Nursery stock is not easily inflammable, and at the time of year when it is in storage the buildings are kept so full of moisture that a fire would be very slow in gaining headway. These conditions are entirely different in dry goods stores.

I think every one will admit that the most of us are paying much higher rates than are equitable, but what we are going to do about it is not so easily determined.

There has been some talk of forming a mutual company. There are in the United States about two thousand mutual insurance companies

in good standing, but I know of none that attempts to do business over so large an extent of territory as would be necessary to take in the majority of the nursery cellars. Most of them are simply county organizations; or, at the most, cover only a few adjoining counties.

The difficulty in doing business over such a wide territory is that the expense of adjusting losses upon such widely scattered risks would be very high in proportion to the amount of business done.

Objection to Mutual Companies.

I believe that mutual companies which have tried to do business over a considerable extent of territory have not, as a rule, been very successful. An organization was formed a few years ago among the florists for the purpose of insuring green-houses, but it was very short-lived, remaining in existence only about three years, I think.

Another objection is that no purely mutual organization which we might form could safely write amounts that would anywhere nearly cover some of the risks that would be offered. There are quite a number of houses that would need to carry \$25,000.00 to \$50,000.00 on their stock in order to be even approximately covered and a few who want \$75,000.00 to \$100,000.00. In my humble opinion even \$10,000.00 would be too large a sum to be safely written on one risk by any mutual organization of our own; indeed, it is difficult to get more than \$5,000.00 from any one of the old line companies.

I believe that relief, if we ever get it, is coming from mutual companies, but from those already in existence rather than by forming one of our own. I learn that many of the nurserymen who are located in small places, especially in Michigan, are obtaining insurance at very low rates from some of the numerous Farmers' Mutual companies. Many of these companies have been in successful operation a long time and furnish very cheap and safe insurance. The amount accepted by any one company upon a single risk is usually small, but policies of \$2,000.00 to \$3,000.00 may often be obtained in several different companies. Since I commenced investigation for the preparation of this paper, I have found where we can place up to about \$18,000.00 upon each of our two cellars in good mutual companies, and I think it will soon be possible to do likewise almost everywhere.

A National Association.

In a recent conversation with a mutual insurance man in Syracuse, I was told that the field of mutual insurance companies is soon to be greatly broadened. There is at present a National Association of co-operative insurance companies, whose president is W. D. Forbes, Des Moines, Iowa. This is a rather loose organization whose present field seems to be simply the calling of delegate conventions and attending to any matters of general importance in connection with mutual insurance. It does not exercise any jurisdiction over the business of the various companies.

I am assured, however, that there is a movement on foot whereby the larger mutual companies will be brought into closer relations with each other, so that the agent of one company may also write business in many others, and by thus dividing the properties among a number of companies, be able to safely cover quite large amounts.

This is to be taken up at the next meeting of the National Association which occurs very soon now, and my informant seemed very confident that this new organization would be perfected and ready for business by the first of next year.

I have had quite a lot of correspondence in connection with this topic, but haven't been able to dig up any ideas of especial value. I haven't anything definite to suggest, except that perhaps it may be as well to wait and see what is done by the national organization of mutuals. I trust something more valuable may be brought out by the other gentlemen.

William Pitkin—"I had hoped that if there was any proposition for a mutual company, we would hear from it. Millers and the manufacturers in different lines are getting low rates by this plan. The matter might be referred to a committee to report at the next convention. We want cheaper insurance but we do not want unsafe insurance at any price."

J. H. McFarland—"I move that a committee of three be appointed to report at the next meeting."

E. Albertson—"Why could we not form a company on the

line of the farmers' insurance companies which for twenty-six years have provided \$3,500,000 of insurance at less than \$2 per thousand. I would not favor an assessment company, but I would provide that a stipulated premium be paid to build up a reasonable reserve in proportion to the amount of insurance carried."

The president appointed as committee to report at the next convention: George C. Perkins, E. Albertson, William Pitkin.

A NURSERYWOMAN.

The only nurserywoman at the Detroit convention was Miss Stella Louise Winchester, of the Lake Shore Nursery Co., St. Joseph, Mich. This nursery was established in 1866 by Thomas Archer and A. O. Winchester. The former withdrew from the firm and the latter died three years ago. Miss Winchester continued the business with Otto Radewald as partner and is much interested in it. She is studying the practical points of the business continually. She has traveled extensively.

Recent Publications.

American Gardening, a weekly journal devoted to gardening in the open and under glass, has been purchased by Thomas B. Meehan, of Germantown, Pa.; C. L. Yates, of Rochester, N. Y.; James M. Hutchison and Daniel W. Wittpenn, of New York city, and has been issued in new form under the direction of Leonard Barron, editor and manager. In an announcement to the many old friends of the paper the editor says: "No effort will be spared to improve the status of American Gardening as the one representative weekly horticultural journal of America. It is not a trade paper, and there is no intention whatever of the directorate to make it such. It will appeal to gardeners, owners of country homes, and will aim to represent the interests of all who are devoted to the cultivation of plants, fruits and vegetables. Movements in the horticultural world, when of public interest, will be watched and reported on, and the doings of progressive horticulturists recorded for the benefit of those who are seeking information in that field of activity. The news items will be given considerably more attention than has been the case in the past. Attention will be given to descriptions of the many fine gardens which are the beauty spots in so many of the suburban and rural districts."

"The Control of the Codling Moth," by C. B. Simpson, U. S. Division of Entomology, is the result of three years' investigation of this insect in the Northwest. The author says, in a recently published bulletin: "It has been estimated that from one fourth to one-half of the apple crop of the United States is either totally ruined or materially injured by it. In many large areas this insect would cause a total loss if it were allowed to take its natural course." The bulletin mentions the fruits infested and gives the life history of the insect, its natural enemies, together with preventive and remedial measures.

The value of shrubbery, says Prof. L. H. Bailey in *Country Life in America*, really lies less in its bloom than in the foliage and the general character as to form and "habit." Many shrubs have merit in both flowers and foliage. Of such is the Japanese quince. The forsythia, however, while excelling in early spring bloom, has a thin and sparse summer effect that lacks both strength and individuality. Therefore, it is well to make the forsythia an integral part of a shrubbery mass. Roses are rarely good for shrubbery effects. They are essentially flower-garden subjects, valued for their bloom alone.

The July *World's Work* has a wider sweep than is usual with this typically American magazine. H. A. Wood narrates the experiences of "A Farmer's Trust" with appropriate illustrations. Vacation and outing seekers will find of interest Albert Bigelow Paine's illustrated article on "Short Vacations by Trolley," "What the Motor Cycle Offers," which is Henry Norman's third article on automobling.

AMERICAN PEONY SOCIETY.

Organized at Detroit—C. W. Ward, President—Will Be Incorporated—Thirty-six Members, Including Prominent Nurserymen—Important Work for Committees.

The American Peony Society was organized at a meeting at the Hotel Cadillac, Detroit, June 11, 1903. There were present a score or more of the most prominent peony growers in this country. A constitution and by-laws were adopted and it was decided to incorporate the society. These officers were elected:

President, C. W. Ward, Queens, N. Y.; vice-president, Guy A. Bryant, Princeton, Ill.; secretary, A. H. Fewkes, Newton Highlands, Mass.; treasurer, J. H. Humphreys, Chestnut Hill, Pa.

Directors—The officers and the following: For one year, C. S. Harrison, York, Neb.; for two years, E. A. Reeves, Cleveland, O.; for three years, William A. Peterson, Chicago.

The following committees were appointed:

Nomenclature—William A. Peterson, Chicago; C. J. Maloy, Rochester, N. Y.; J. F. Rosenfield, West Point, Neb.; A. H. Fewkes, secretary, ex-officio.

Exhibitions—Guy A. Bryant, Princeton, Ill.; E. A. Reeves, Cleveland, O.; James Wheeler, Brookline, Mass.

Press—C. Betscher, Canal Dover, O.; C. S. Harrison, York, Neb.; J. H. Humphreys, Chestnut Hill, Pa.

The date of the next meeting was left to the board of directors to decide.

One of the main objects in forming this society is the classification of peonies, as to names, under a standard schedule. There is much confusion regarding varieties and it will be the duty of the committee on nomenclature to investigate and report on this very important matter. The Society will meet annually at the time and place designated by the American Association of Nurserymen, because many of its members are nurserymen. It is probable, however, that the next meeting will not be held in Atlanta.

Following is a list of members of the American Peony Society, as reported by Secretary Fewkes:

C. Betscher, Canal Dover, O.; F. A. Blake, Rochdale, Mass.; Philip Breitmeyer, Detroit; Arthur Bryant & Son, Princeton, Ill.; John Charlton & Sons, Rochester; H. A. Dreer, Philadelphia; Ellwanger & Barry, Rochester; J. Wilkinson Elliott, Springdale, Pa.; A. H. Fewkes, Newton Highlands, Mass.; C. S. Harrison, York, Neb.; Julius Heurlin, Blue Hill Nursery, South Braintree, Mass.; E. Hawley & Sons, Fennville, Mich.; William Warner Harper, Chestnut Hill, Pa.; George Hollis, South Weymouth, Mass.; Prof. Robert T. Jackson, Cambridge, Mass.; C. H. Joosten, New York; Jackson & Perkins Co., Newark, N. Y.; Klehm's Nursery, Arlington Heights, Ill.; Frank B. Lown, Poughkeepsie, N. Y.; F. A. Meneray, Crescent, La.; Thomas Meehan & Sons, Dreshertown, Pa.; P. Ouwerkerk, New York; P. S. Peterson & Son, Chicago; E. A. Reeves, Cleveland; J. F. Rosenfield, West Point, Neb.; F. S. Reisenberg, Walden, N. Y.; August Rölker & Sons, New York; Storrs & Harrison Co., Painesville, O.; W. & T. Smith, Geneva, N. Y.; E. J. Shaylor, Wellesley Hills, Mass.; T. C. Thurlow, West Newbury, Mass.; C. W. Ward, Queens, N. Y.; Alexander Wallace, New York City; Charles W. Wild, Sarcoxie, Mo.; James Wheeler, Brookline, Mass.

DANVILLE, N. Y., May 1, 1903.—George A. Sweet: "Enclosed find \$1 for renewal. We find your journal very interesting and instructive and do not see how any nurseryman could do without it."

MONTREAL, May 5, 1903.—Lucke Brothers Co.: "We have pleasure in inclosing herewith in current exchange cash \$1. We, of course, want the journal, and we trust that you are meeting with the success that is due to your high calling."

ORNAMENTAL STOCK.

Its Importance to the Nurseryman—Plea for a Specimen Ground as a Public Educator—Able Address by W. C.

Barry at Detroit Convention.

"The importance of Ornamental Stock to the Nurseryman" was ably discussed by William C. Barry, Rochester, at the Detroit convention. He said:

Some of you have been in the business as long as I have. You may not all have had the opportunities I have had in the ornamental department but I think you have noticed an advance in taste for ornamental trees and shrubs and you no doubt have attempted to meet that demand. Within my recollection the demand has been comparatively small in many places, but the demand is growing rapidly in both large and small places. It is a good sign of the times when the people are in a condition so that they can give money and time to the surroundings of the home. We have noted that many take pride in the interiors of their homes and neglect the outside entirely. Great attention is given to architecture, yet the surroundings of the building are ignored. The home is not complete until the outside harmonizes with the interior.

We have material which when once planted stays there. Who is there that, knowing this, will not avail himself of this material? He cannot afford to be without it. The nurseryman has a part to play in this. If he will have a sample plot of ground in which may be seen the beauty of ornamental stock he will educate the public to its use. There isn't a nurseryman who can afford not to have a specimen ground.

It is not an easy matter to produce a specimen ground. If you do not feel competent to prepare it, get the advice of some one. The effect is what is wanted. Your specimen trees and plants must not be planted promiscuously. The specimen ground may be expensive; but you will be repaid many times.

It would be a mistake to propagate a large lot of nursery stock for which there is no demand; but the nurseryman can educate the tree planter to plant other kinds. Don't go into this matter too heavily at first. The Peony gives the best results. The Rhododendron is not hardy. The Rose needs much care. Remember that going into a garden should be like going into a picture gallery.

Mr. Watrous—"I believe every word of Mr. Barry's address. The nurseryman must know, too, what stock is going out under his name. I will not again let any dealer come on my grounds and pack there and then say the stock came from my grounds. I have had experience along this line."

The California legislature has appropriated \$130,000 for the purpose of adequately exploiting California and its resources and progress at the St. Louis Exposition in 1904.

Long and Short.

Irving Jaquay Co., Benton Harbor, Mich., offer 250,000 peach trees for fall delivery.

J. G. Harrison & Sons, Berlin, Md., offer apple seedlings, also peach apple and pear in ear lots.

The improved Feigly digger is a money-saving tool for nurserymen. Made by D. Feigly, Medway, O.

A full line of superior stock is offered by McNary & Gaines, Xenia, O. The Opalescent Apple is a specialty.

Peters & Skinner, N. Topeka, Kans., have Apple, Cherry, Peach and Kieffer Pears, shade trees and grape vines.

Russian Apricot seedlings, Apple trees, Mulberry and Box Elder seedlings may be had of J. A. Gage, Beatrice, Neb.

Anemone Japonica, Asters, Peonies, Phlox, Finks, Primulas, Trilliums are specialties with Henry A. Dreer, Philadelphia.

Peach and Plum trees and Asparagus roots are specialties with the Delaware Nurseries, D. S. Collins, manager, Milford, Del.

G. J. B. Van Den Heuvel, Uden, Holland, is purveyor to the court of Holland, of fruit, ornamental and forest trees, conifers, roses, etc.

"Remember," said Orlando Harrison last month, "if apple trees are swept in Kansas, we have a few at Berlin, Md., and will divide with you."

The automatic copying book made by Pershing & Co., South Bend, Ind., copies while you write. Use any pen and paper. No press and no trouble.

Apple, Peach, Pecan, Cherry and Pear trees, Evergreens and Roses are offered for fall delivery by the Southern Nursery Co., Winchester, Tenn.

Tree-box lumber may be procured at a saving of money, from Goodwillie Brothers, 407 New York Life Bldg., Chicago, Ill. Prompt shipment assured.

The Maher & Grosh Cutlery Co., Toledo, O., write: "We have had a very unusual trade in budding knives this season. The demand has been three times greater than in any previous year."

B. Suzuki, of Suzuki & Iida, started for Japan, via Vancouver, June 19th.

The first ripe peach in Fort Valley, Ga., this year was picked on May 11th.

At the meeting of the Royal Horticultural Society, England, on March 24th, 63 Fellows were elected to membership, making a total of 468 elected since the beginning of the present year.

The R. G. Chase Co., Geneva, N. Y., has moved into its new building on Pulteney street, the business having outgrown the old building on Main street. The new offices are adjacent to the nursery grounds.

The Fruit Trade Journal estimates the crop of Florida oranges this coming season at 2,000,000 boxes. This is sustained by local estimates. The crop has passed the danger period, not only of frost but also, it appears, of drought.

TREE-BOX LUMBER

We are shipping to many of the largest nurseries all of their Tree-Box Lumber and they are SAVING MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

We want to hear from you.

Write us today for prices, etc.

GOODWILLIE BROTHERS,

Saw Mills and Factory,
WAUSAU, WIS.

407 New York Life Bldg., Chicago, Ill.

The Snow Hill Nurseries,

WM. M. PETERS' SONS,

R. F. D. Route

SNOW HILL, MARYLAND.

Having practically sold the bulk of our fruit trees, we offer for delivery Spring, 1903: Three millions of well-rooted Strawberry Plants, all from plants set the past Spring, of the following varieties:

Auto	Hoffman	Ruby
Bubach No 5	Jessie	Sample
Bismark	Jersey Markett	Senator Dunlap
Brandywine	Johnson's Early	Sunrise
Blonde	Kansas	Sharpless
Crescent	Lady Thompson	Saunders
Cyclone	Marshall	Shepard
Duffs	Mitchell's Early	Seaford
Drowth King	Nickomer	Tubbs
Elna	New York	Tillman's Favorite
Enormous	Ocean City	Tennessee
Gandy	Parker Earl	Up-to-Date
Glenmary	Parson's Beauty	Wolverton
Gladstone	Pride of Cumberland	Warfield
Greenville	Ridgeway	

Also a fine lot of California Privet, and 500,000 Asparagus Roots, 2 year, in the following varieties: Conover Colossal, Barr's Mammoth, Palmeto. Correspondence solicited.

Peach Trees

1 yr. from bud, 300,000 Trees of leading sorts.

Plum Trees

On Marianna stocks, 1 yr. from bud, Japanese and American varieties, all smooth and well-grown. Peach and Plum buds to offer.

Asparagus Roots

2 yr. old, Palmetto, Conovers Colossal and Barr's Philadelphia Mammoth. For Fall of 1903.

THE DELAWARE NURSERIES,

D. S. COLLINS, Mgr.

Milford, Delaware.

NOW IS THE TIME

to send in your subscriptions. Only One Dollar a Year in Advance. Foreign Subscriptions \$1.50. Address all communications to

The National Nurseryman Publishing Company, Inc.,

205 COX BUILDING,

ROCHESTER, N. Y.

100,000 Russian Apricot Seedlings fine for plum and apricot stocks.

100,000 Apple Trees good 2 yr. mostly standard winter sorts. Black and Honey Locust.

Mulberry and Box Elder seedlings. Scotch and Austrian Pines also Red Cedar 1 yr. transplants.

J. A. GAGE, - Beatrice, Neb.

IF YOU NEED TREES WRITE TO

G. J. B. VAN DEN HEUVEL,

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Purveyor to the Court of Holland, UDEN, Holland.

Nurseries of Fruit, Forest, Ornamental Trees, Conifers, Roses, etc.

Nurseries at Uden, Holland; Weese, Germany.

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OFFER FOR FALL 1902 AND SPRING 1903

First class Peach, Apricots, fine lot of Sugar Maples, Silver, Norway and Weirs Cut Leaf Maples, Linden, American Linden, and Carolina Poplars. 100,000 California Privet, one and two year; 20,000 Citrus Trifoliata, two and three year; and 50,000 Silver Maple Seedlings.

Samples and prices on application.

W. T. HOOD & CO., OLD DOMINION NURSERIES, RICHMOND, VA.

DREER'S HARDY PERENNIALS

SPECIALTIES

Anemone Japonica

Asters (Michaelmas Daisies)

Campanulas (Bell-Flowers)

Iriskaempfer and Germanica

Paeonies

Phlox Decussata

Pinks choice hardy sorts

Primulas

Rudbeckias

Stokesia Cyanea

Tritoma Pfitzeri

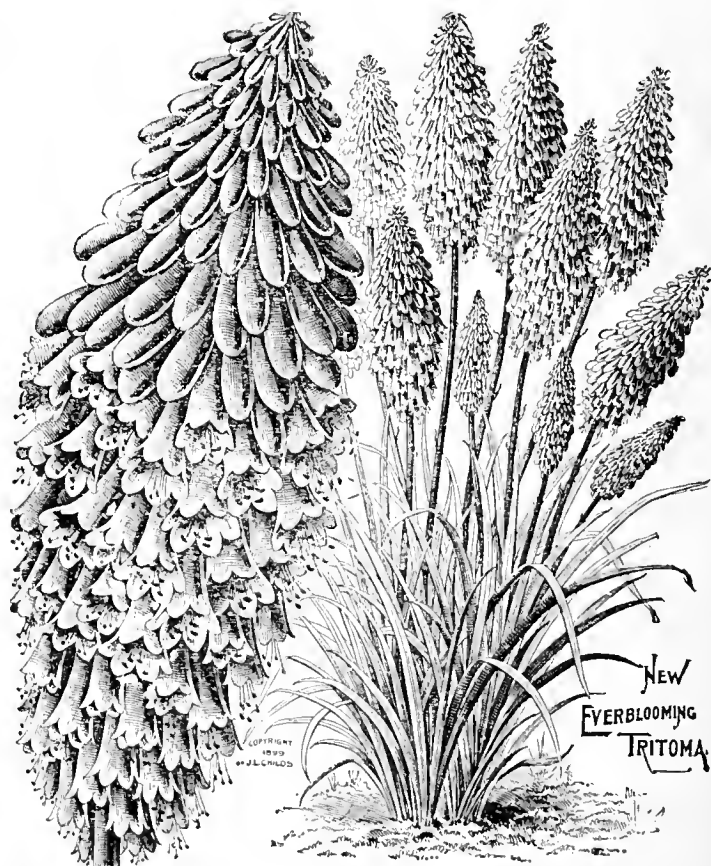
We are specialists in this class of plants and carry not only the largest stock but the greatest variety. Our list contains many rare plants not generally found in American collections.

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Established 1780.

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Brault & Son, Directors,

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ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

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ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of
**Fruit and
Ornamental**
stock for fall
trade.

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubbery
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

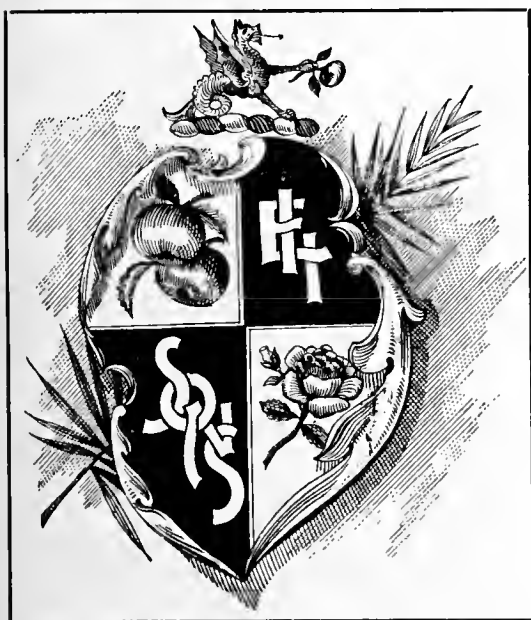
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MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

CHOICE STOCK

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

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Pioneer Nurseries Company

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**Offer for
Fall
Shipment**

**Apple, Pear, Plum
and Peach**

BY THE CARLOAD.

We will equalize freights with the principal Eastern shipping points, and will guarantee to interest you with our prices. Write us

HILL'S EVERGREEN NURSERIES

intend to keep at the head for hardy, nursery grown trees for the nursery trade. A general assortment of seedling varieties, all sizes. A large supply of Douglas, Hemlock, and White Spruces. A grand lot of the famous Rocky Mountain Blue Spruce and Concolors. White, Scotch, Austrian and Dwarf Mountain Pines. Arborvites, etc. Over two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

**APPLE
TREES**

2 and 3 years old, smooth, well-grown, fine stock
Complete list of varieties. Grades mostly $\frac{3}{4}$ and up,
and $\frac{5}{8}$ to $\frac{3}{4}$.

Will make special low low prices in car lots or less for
fall delivery. Correspondence invited.

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B. Muellerklein's Nurseries

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THE LARGEST CULTURES IN

Currants and Gooseberries

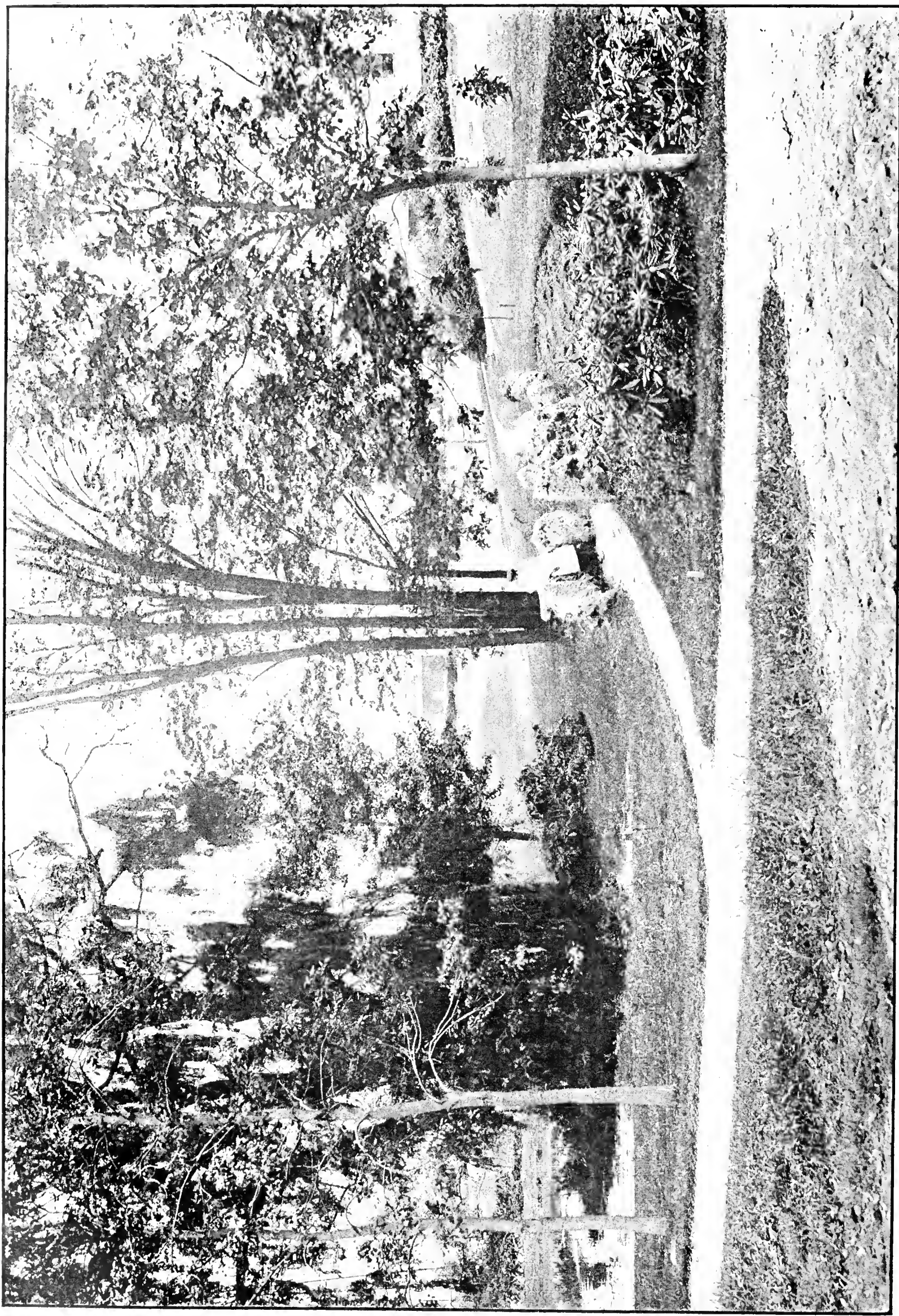
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Straight Stems, (3 4 ft. high), Strong Heads.
Best varieties.

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The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"The majority of us do not know as much about varieties as we ought."—J. H. HALE

Vol. XI.

ROCHESTER, N. Y., AUGUST, 1903.

No. 8.

THE TEXAS ASSOCIATION

**Fourth Annual Meeting — President Kirkpatrick's Address —
Nurserymen Present — Trade Marking — State Inspection
Law Suggested — Action of Wholesale Nurseries
Criticised — Officers Re-Elected.**

The fourth annual session of the Texas Nurserymen's Association was held at College Station in connection with the Texas State Horticultural Society, and also of the Texas Farmers' Congress, on July 8-10. There was a good representation of Texas nurserymen present, and the convention was thoroughly enjoyed and decidedly profitable. A. K. Clingman, of Keithville, La., was present, also J. C. Hale, Winchester, Tenn.

We are indebted to Secretary John S. Kerr, Sherman, Texas, for a report of the meeting.

President Kirkpatrick's Address.

The sessions were opened by President E. W. Kirkpatrick, of McKinney, Texas, who, in his annual address, said in part: Fellow Nurserymen of Texas and the Southwest:

It is with peculiar pleasure that I extend to you a welcome to this our fourth annual convention. We of the South in general, and of the great State of Texas in particular, are enjoying a prosperity the world has never seen equaled, and it behooves the nurserymen of our country to awake to a sense of their high position and of their great part in this progress. You, the nurserymen, have the honor of originating, discovering and disseminating the grandest fruits and flowers that the world has ever seen. The people of the North, wealthy and prosperous, are looking to us of the South to furnish them with fine fruit and vegetables for their home consumption, and nothing is too good nor too expensive for their families, and they look down here with a longing desire for a large supply of southern luxuries. They are willing to send their loads of gold here for products of Texas horticulture. They are among our best friends in our grand work, and the horticulturists are looking to you fellow nurserymen as the propagators and originators of these fine fruits to keep pace with the demands, and to furnish them with the very best varieties and the highest grades of trees that can be secured.

We want to correspond with each other more than we do, we want to meet more and more regularly, we want all the brethren to come and feel welcome here, as you feel welcome. Let every nurseryman feel it his duty and high privilege to work in harmony with every other nurseryman. Let us discuss the great questions of vital interest presented to us, laying down all petty prejudices, and coming together as brothers in a common cause. This is the time for organization, the time of the common brotherhood of man, and I hope that we, as nurserymen and fruit growers will feel it to be our bounden duty to work harmoniously and vigorously together in forwarding the great cause of southern horticulture.

We extend a hearty welcome to our brethren from other states and to every co-worker in the Southwest to join with us.

Nurserymen Present.

The following nurserymen were present:

F. W. Mally, C. Faulkner, E. W. Kirkpatrick, J. F. Sneed, C. P. Orr, Jno. M. Howell, Mr. and Mrs. J. R. Johnson, G. Onderdonk, F. T. Ramsey, Jno. F. Brill, B. L. Adams, C. C. Mayhew, W. H.

McKnight, A. K. Clingman, J. W. Higginbotham, J. D. Allen, O. K. Phillips, J. L. Downing, Wilson Bell, Robt. F. Cole, M. N. Knox & Son, E. M. Henderson, J. W. Tackett & Son, J. B. Power, G. A. Shattenburgh, R. H. Bushway, W. A. Yates, Stanley Watson, M. G. Black, W. D. Bentley, Sam H. Dixon, D. W. Ford, C. L. Kidd, E. A. McNett & Shultz, S. R. McKee, Mrs. S. R. McKee, F. K. McGinnis, J. C. Hale, J. S. Kerr.

The report of the secretary-treasurer, J. S. Kerr of Sherman, Texas, showed a balance on hand of \$27.30.

"Best Methods of Growing Open Ground Roses" was outlined in a paper by John F. Sneed of Tyler, Texas, which was followed by a lively discussion entered into by a number of those present. It was complained that the Crimson Rambler suffers severely from mildew, and that mildew spreads in a limited degree to other varieties, but to no great extent.

C. P. Orr of Arp, Texas, read an interesting paper, "Can There be Too Many Elbertas Grown?" holding that in the greatly increased plantings of Elberta, it will be necessary to have more economical methods of culture, packing and marketing, and that properly handled, there will probably be a reasonable market for all that can be grown. Mr. Orr's paper was highly commended as being very pointed, condensed and full of good suggestions. It was strongly stated by East Texas peach growers, that being ten days ahead of Georgia and other parts of the peach country in ripening, probably East Texas Elbertas would be ahead of the bulk of competition, and therefore would bring good prices.

Trade Marking.

"Trade Marking for Protection of the Introducer of New Varieties of Trees and Plants," was ably handled by F. T. Ramsey of Austin, Texas. He stated that it was a new thing in the Southwest, and had not been generally entered into up to this time, but that the time had arrived when the introducers of new fruits and plants must have protection in the handling of the same, and that this trade marking was evidently the most practicable and efficient. The trend of the discussion showed that the sense of the southern nurseryman is that it is a sign of good business sagacity, and is perfectly admissible for nurserymen to protect themselves by this means.

The question of "Office Methods" elicited much interest, as outlined in papers by Misses Holsapple, Mayhew and Kerr, of Sherman, Texas.

W. W. Yates of Brenham, Texas, read a paper on "The Best Methods of Propagating Japan Persimmons and Nut Trees." President Kirkpatrick followed with illustrations of the methods of grafting and budding this class of trees.

C. C. Mayhew of Sherman, Texas, read an interesting paper on "The Wholesale Nursery Business of the Southwest," showing that there is a fine opening for a strictly wholesale nursery business.

Injustice Alleged.

John F. Brill of Grapeland, Texas, declared that there was a great injustice being done the nurserymen of Texas by indiscriminate wholesaling of trees, and that one of the principal works of this Association would be to devise means for regulating wholesale and retail prices.

F. K. McGinnis of Terrell, Texas, delivered an address on the "Relations of the Nurserymen to Commercial Orcharding." As an orchardist, Mr. McGinnis declares that the nurseryman stands in a very marked degree as a copartner and sponsor, you may say, of the orchardist. Honest nurserymen seek out all the valuable varieties, spend much time in having them properly tested, and after much time and expense offer them to the commercial orchardist, thus saving the orchardist a great deal in the way of experimenting. Mr. McGinnis warns against planting too many varieties, but suggests that we go to the nearest

nurseryman and select only those varieties which the nurseryman has found to be successful in that given locality.

Bud Selection.

"Improvement of Fruit Trees by Bud Selection, or Propagation from Bearing Trees vs. Nursery Rows," was outlined in a paper by J. S. Kerr of Sherman, Texas. The trend of the paper and the discussion showed that it was considered of great importance to propagate from trees and plants from types of varieties of known good fruiting or flowering habits, and that mother blocks should be established from these choice trees.

G. Onderdonk of Nursery, Texas, a pioneer in southwestern horticulture, declared that he had seen considerable variation in trees grown from various trees which had previously originated from one specimen, finding as much as twenty-five per cent. of trees so propagated would fall below the standard of excellence, and he believes that much depends on bud selection.

"A Scale, or Nursery and Orchard Inspection Law for Texas, State and National," was discussed by Prof. F. W. Mally of Garrison, Texas, and Prof. Sanderson, of the A. and M. College of Texas. These gentlemen believe that a state inspection law is very much needed, and think there is no prospect that the national law will be passed; that we must depend on a state law. This discussion became very heated, pro and con.

Wholesale Nurseries Criticised.

The following resolution was adopted:

Whereas, A number of wholesale nurseries in other states have sought and enjoyed much trade among the nurserymen of Texas, and

Whereas, Some of these nurseries are now sending men in our midst, offering and advertising to planters about the same prices at which they sell the same stock to nurserymen; therefore, be it

Resolved, That the nurserymen of Texas severely criticise this as unbusinesslike, unjust and deserving our condemnation, and that it is the duty of Texas nurserymen to withhold their wholesale trade from such nurseries so long as they do this, and give that trade to nurserymen who observe the usual courtesies of the wholesale trade, and make proper distinction between the wholesale and retail trade.

Officers Re-elected.

The old officers were re-elected for the ensuing year, and are as follows: President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, J. S. Kerr, Sherman, Texas.

A strong appeal was made for every nurseryman in Texas and the Southwest to join the Texas Nurserymen's Association, and help carry on the great work that lies before it. The annual membership fee is one dollar, and all those engaged in growing trees are eligible to membership, by sending this fee and their name to the secretary.

F. W. Taylor of St. Louis, chief of the Department of Agriculture and Horticulture at the St. Louis Exposition, was present and made a strong appeal for an exhibit of Texas products at the World's Fair. Nurserymen of the state will co-operate with the Texas World's Fair Commission in getting up a suitable exhibit.

J. C. Hale of Winchester, Tenn., gave a cordial invitation to all Southwestern nurserymen to attend the Southern Nurserymen's Association convention at Winchester, Tenn., during August.

There will probably be a meeting of the Texas nurserymen during the Fall at the call of the executive committee, and the next annual meeting will be held at College Station, July, 1904.

State Horticultural Society.

Texas State Horticultural Society held its eighteenth annual session in conjunction with the Texas Nurserymen's Association at College Station on July 7th to 10th, 1903, B. L. Adams, Bonham, Texas, president; Sam H. Dixon, Houston, Texas, secretary. There was a large attendance, and much interest

was manifested. It was decided to publish the proceedings of the Horticultural Society and the Nurserymen's Association together in one volume.

Officers elected for the ensuing year, are C. C. Mayhew, Sherman, Texas, president; A. K. Clingman, Keithville, La., vice-president; Sam H. Dixon, Houston, Texas, secretary.

A lively interest is manifested in a Texas exhibit for the St. Louis Exposition.

EXTENT OF FUMIGATION.

In the course of responses to questions asked by the Rural New Yorker as to the extent to which nurserymen are fumigating nursery stock, these replies were received:

Charles Black, New Jersey—"As far as New Jersey, Maryland and Delaware are concerned, I do not think there is a nursery of any note but what fumigates all nursery stock that requires it."

J. G. Harrison & Sons, Maryland—"I do not think the fumigation of nursery stock is general by any means. Many have decided that there have been thousands of trees hurt by it if the full strength is used according to instructions given years ago. We have lost quite heavily ourselves fumigating trees."

J. C. Hale, Tennessee—"The nurserymen in Tennessee did not fumigate until about two years ago. I think that the nurserymen over the state are practically all fumigating now. We have several nurseries here, and practically all of them have fumigating houses and are fumigating not only the stock they send out, but all of the roots, scions and buds they are using in their nurseries."

Stark Bros., Missouri—"We do not think the fumigation of nursery stock has become general except in states where required by law; in fact, in talking with other nurserymen we find a great many of them decidedly skeptical as to its value. As a whole we are in favor of fumigation and apply it constantly."

Edwin Hoyt, Connecticut—"I believe the reliable nurserymen are fumigating all the fruit tree stock they ship out. So far as the scale on nursery stock is concerned I believe the fumigation is effectual, but it is no lasting protection to those who buy and plant the trees."

George A. Sweet, New York—"There has never been any San José scale found in Dansville or vicinity, so we are not in the way of hearing much scale talk, and the nurserymen of Dansville have not generally adopted fumigation. Out of about 40 nurserymen here only two have fumigation houses. Personally we fumigate everything that comes on our grounds that is not grown in Dansville, and when requested we fumigate all sales for shipment."

W. M. Peters' Sons, Maryland—"We are not able to say that the fumigation of nursery stock is general, but our impression is that every year more is treated. You will find many nurserymen are fumigating even though their state laws do not make it compulsory. We feel safer to fumigate, even our buds before we put them in our seedlings, also grafts before we put them on our stocks, and fumigate our stocks that we graft on. Like spraying, it needs experience, and to be done thoroughly. It is a business proposition, and we consider it a good one."

The Storrs & Harrison Co., Ohio—"We think the tendency among nurserymen is not to fumigate unless they have to, or only to fumigate perfectly dormant stock that is dug late in the fall and carried over for spring shipment. We believe that many of the best nurserymen are doing this right along."

Albertson & Hobbs, Indiana—"We do not think that fumigation of nursery stock for the destruction of San José scale has become by any means general. Of course where nurseries have become infested with the scale they have been obliged to fumigate the stock, and a few states are now demanding that all stock shipped into their territory shall be fumigated. We do not think there is any necessity of compulsory or general fumigation, though where stock has become infested it certainly should be very thoroughly fumigated."

Among Growers and Dealers.

E. E. Hewett's home at Hannibal, Mo., was destroyed by fire recently.

William Warner Harper, Chestnut Hill, Pa., sailed for Europe last month.

Robert George, of Painesville, O., visited New York state nurseries last month.

A. Willis, Ottawa, Kan., was in Rochester and Dansville, N. Y., last month.

August Rolker, New York, made a western trip after the Detroit convention.

Charles Fremd, Rye, N. Y., called upon Western New York nurserymen last month.

Hiram T. Jones and family, Elizabeth, N. J., are spending their vacation in Maine.

The California Horticultural Alliance has been formed, with H. H. Lilienthal as president.

William A. Peterson, Chicago, visited Clifton Springs, N. Y., and Island Heights, N. J., last month.

James McHutchison, New York, sailed for Europe July 9, by S. S. Moltke, on his annual business trip.

E. F. Stephens, Crete, Neb., recently visited the Chattanooga, Tenn., district in search of fruit industry data.

Fred L. Atkins, of Bobbink & Atkins, Rutherford, N. J., is on a European tour in the interest of the firm.

J. A. Taylor, Wynnewood, Ind. Terr., has sold 40,300 apple trees to one orchardist. He reports the demand very strong.

Silas Wilson, Atlantic, Ia., has been appointed superintendent of horticulture for Iowa's World's Fair Commission.

The Wholesale Seedmen's League has elected these officers: President, F. W. Bruggerhof; secretary, B. Landreth.

Prof. John Craig has been elected to the chair of horticulture at Cornell University, as successor to Professor Bailey.

P. J. Van Heiningen, the American representative of P. Loef Az & Company, Boskoop, Holland, sailed for Europe July 8.

C. W. Murphy, Lawrence, Kan., called upon Western New York nurserymen and other friends during the last days of June.

Prof. F. A. Waugh, Amherst, Mass., sailed for Europe July 20, to visit fruit-growing establishments of England, France and Germany.

Under the new Michigan law all nursery stock going into that state must be fumigated, and railway companies are to be held responsible.

During June, L. L. May & Co., St. Paul, Minn., sold at their retail florist establishment, fruit from strawberry plants grown at the Mayfield nursery.

Mr. and Mrs. Frederick W. Kelsey and son, New York, sailed for Europe July 2. Mr. Kelsey will visit France, Switzerland, Holland, Belgium and England.

Secretary of Agriculture James Wilson says that any farmers can procure, from the Department of Agriculture, lady bugs, the imported enemy of the San Jose scale.

The Ozone Park Nurseries, at Ozone, L. I., have been started, with 40 acres of leased ground, by Edwin Webber and Charles Iffinger, with C. B. Knickman as manager.

Ex-President Charles A. Ilgenfritz, of the American Association, Monroe, Michigan, visited Painesville and Perry, O., and Western New York nurserymen last month.

C. J. Maloy, of the firm of Ellwanger & Barry, Rochester, N. Y., attended the meeting of the New England Association of Park Superintendents, in Albany, N. Y., June 23d.

Olmsted Bros., Brookline, Mass., have been given the contract at \$4,000 for the landscape architecture of Grant Park, the lake front at Chicago, which is to be improved at large expense.

E. Runyan, of the Elizabeth, N. J., Nursery Co., sailed for Europe on July 1st. He will visit France, Holland and Belgium to secure specimen trees and shrubs. He will return August 22.

The New York Times reports that within a radius of eighty miles around San Jose, Cal., are 14,500 acres upon which plants and flowers are raised for their seed alone and that the value of the crop is \$3,000,000 per year.

Charles H. Vick, of the firm of James Vick's Sons, Rochester, N. Y., has been appointed superintendent of floriculture and horticulture for the State of New York at the Louisiana Purchase Exposition to be held in St. Louis.

S. H. Rumph, Marshallville, Ga., the originator of the Elberta peach, the pioneer among commercial peach growers in Georgia, has orchards containing 150,000 trees, and does a nursery business amounting, it is said, to \$75,000 annually.

H. Lightfoot, Chattanooga, Tenn., who has been connected with the Southern Fruit Grower since its establishment in 1896 has resigned his position as editor because of pressure of duties as president and manager of the Lightfoot Nursery Co.

According to N. G. Robertson, horticulturist and nurseryman, of Trenton, Mo., the reports of damage by frost to the Missouri fruit crop have been greatly exaggerated. Missouri, he says, will raise one of the biggest fruit crops in the history of the state this year.

K. Morton, Richmond, Va., writes: "There are over one hundred nurseries in Virginia. As state vice-president of the American Association, I propose to stir things up some, and hope, at Atlanta in 1904, to have all these nurseries represented." Mr. Morton was the sole representative from Virginia at the Detroit convention.

The National Nut-Growers' Association, whose second annual convention will be held in New Orleans, October 28, is modeled after the American Association of Nurserymen, in that it is to issue a badge book containing program, officers, names of members and advertisements. The association also has state vice-presidents.

The first competition since 1897 for the George Ellwanger prize, which the Western New York Horticultural Society has in trust for the best private place having reference to shade trees, shrubs and hardy flowers, is on. Wing R. Smith of Syracuse, John Charlton of Rochester, and F. E. Rupert of Seneca Falls, are a committee on awards.

Charles J. Marc, owner of the florist and nursery business conducted by Gabriel Marc & Co., at Woodside, L. I., has discontinued the business and sold the property. Gabriel Marc was one of the pioneer American nurserymen, beginning operations in the early forties. He imported tree roses and camellias and sold them throughout the South.

Michigan florists are protesting against the state law, requiring all florists who sell plants classed as nursery stock to file a \$1,000 bond with the agricultural department, binding themselves to handle only such stock that has been inspected under the direction of the department and to keep a correct list of the names and addresses of the parties sold to.

Apropos of the discussion on publicity at the Detroit convention, a nursery agent exhibits his faith in publicity by inserting the following advertisement, in display type, in the Winnfield, La. Comrade, a weekly paper: "Fruit trees. I will canvass Winn Parish this season in the interest of the old reliable Clingman Nurseries and would be glad if you would hold your orders for me. Japanese Chestnuts and Pecans a specialty. G. E. Bates, salesman."

Professor William B. Alwood, who had served as state entomologist of Virginia for seven years, has resigned that position in order to devote his time to the work of the Polytechnic Institute, at Blacksburg; and J. L. Phillips, who has been assistant entomologist for three years, has been appointed state entomologist. The services of Prof. Alwood have been retained as consulting entomologist of the Virginia Crop Pest Commission, of which John T. Brown, Brierfield, Va., is chairman.

The H. J. Weber & Sons Nursery Co., at Nursery Station, St. Louis, Mo., has been incorporated under the laws of Missouri with a paid-up capital of \$50,000, divided into 500 shares, of which H. J. Weber holds 378, F. A. Weber, 28, Anna M. Weber, 21, Emelia C. Weber, 20, William A. Weber, 20, W. T. E. Weber, 18, G. A. Weber, 15. This corporation owns 162 acres of valuable land near the city limits of St. Louis, with improvements, and has leases on 40 acres adjoining. It does a general nursery business, both wholesale and retail.

VIRGINIA AND WEST VIRGINIA LAWS

Nurserymen Doing Business Must Pay \$20 Per Year For a Certificate—In West Virginia They Must Pay \$10 For License in Each County in Which the Agent Operates.

The new Virginia law provides that on and after September 1, 1903, nursery agents or corporations doing business in that state must procure from the auditor of public accounts a certificate of registration at a cost of \$20, such certificate to be good for one year from date. The selling of nursery stock in Virginia without such certificate will subject the seller to a fine of \$20 to \$100, it being deemed a misdemeanor.

The law provides specially for the inspection of nursery stock.

Chapter 48 of the Acts of 1903 of the State of West Virginia is in part as follows:

Section 1. That every dealer or grower of fruit trees, vines or shrubbery, either in or out of the state, who employs travelling agents for the sale of such fruit trees, vines or shrubbery in any county in this state, shall, before he is authorized to do business in any county, through such agents, take out a license in such county, to be issued by the assessor in like manner as other license, and shall pay to the sheriff of said county the license fee, which shall be fixed at the sum of ten dollars. And every such dealer, as hereinbefore mentioned, whether such dealer be a firm, person or corporation, shall file with the clerk of the county court of each county, in which he may have a travelling salesman, a list of his agents in said county, which said list of agents, when so filed by the clerk of the county court, shall be at all times open to the inspection of the public. And any such person, firm or corporation, who shall knowingly and wilfully brand or label any tree or vine a false name or variety, or who shall fail to pay the license fee herein provided, shall be guilty of a misdemeanor, and, upon conviction thereof, fined not less than fifty dollars nor more than five hundred dollars.

Section 2. Every agent of any firm, person or corporation, as described in the first section of this chapter, shall be required to take from his employer a certificate showing his authority to do business as agent for such firm, person or corporation, and shall present the same for inspection to any person who shall demand to see the same. And any agent of any such firm, person or corporation, engaged in the sale of any fruit trees, vines or shrubbery, who shall sell to any person trees, vines or shrubbery upon such certificate of agency, or upon the representation that they are to be supplied by any such person, firm or corporation, shall procure the goods so sold elsewhere, or from any other person, firm or corporation, and supply them in the place thereof, without the written consent of the purchaser, shall be guilty of a misdemeanor, and, upon conviction thereof, shall be fined not less than fifty dollars nor more than five hundred dollars, or confined in the county jail not more than one year, or both at the discretion of the court.

It is provided also that stock going into the State of West Virginia shall bear a certificate of inspection.

NEW POSTAL REGULATION.

Paragraph 4, section 474 of the postal laws and regulations, is amended to read as follows:

4. There may be enclosed with third-class matter without changing the classification thereof, a single visiting or business card; a single printed order blank, or a single printed combination order blank and coin-card with envelope bearing return address; or a single postal card bearing return address.

The postmasters throughout the country have been asked to give notice to the fact that beginning July 1st no package weighing more than four pounds six ounces will be mailable to Germany by parcels post.

THE NEW PLANT BREEDING.

In the course of his address on "Varieties" at the Detroit convention Prof. L. H. Bailey, discussing the new plant breeding, said:

With most tree-plants, however, the difficulty is great, since the generation from seed to seed is so long that little can be accomplished in one man's life time. (What an opportunity Methuselah missed!) Of course, the same general methods must be applied to these plants as to others, but it is work that must be largely delegated to the professional experimenters. The general nurseryman can scarcely hope to take it up to any large extent. Definite plant-breeding work is now coming to be a business by itself. The old days and the old ways are passing.

More Efficient Varieties.

Yet I believe that there are some things that every nurseryman can do with efficiency and with profit to hasten the time of more efficient varieties. The first thing that I would urge is that attention be given as much as practicable to the particular plant from which cuttings or buds or cions are taken. I have already had this question up with several horticultural societies, but it always needs new emphasis and the evidence of new experience. By this remark, I do not mean to say that I was the first to present the idea, for I can trace this advice back certainly more than 200 years,—thereby adding testimony to its importance. There are those who deny that the individual characteristics of a plant are in any way impressed on its bud-propagated offspring, but these persons are fewer each year and the evidence to combat them is constantly stronger. The whole tendency of modern plant-breeding, as we have seen, is to begin with a plant because it has individual merit rather than because it represents a particularly variety. That is, we are constantly giving greater attention to individuality in plants. This the animal-breeder has always done. If no two Cuthbert raspberry bushes and no two Early Crawford peach trees are alike, why not propagate from those that are best? I have an orchard of Crawford peaches, all purchased from one of the best and most reliable members of this Association, but I have at least twenty kinds of Crawfords, some of them practically worthless. If I were to plant another Crawford orchard, I should want to know what trees the buds were taken from. If I were to propagate indiscriminately from my own orchard, persons to whom I should sell the trees would probably say either that the stock was "mixed" or that the Crawford had run out. Now, I admit that the stock would have been "mixed" and yet every tree be a Crawford. Suppose now, that I should propagate only from the very best trees, what then would likely be the result? I believe the time has come when the nurseryman must cease to propagate indiscriminately from stock merely because it belongs to a given variety. He should propagate only from stock or trees that he knows to have direct merit for efficiency.

Goats of the Pomological Sphere.

Another way of increasing the efficiency of varieties is by giving the variety the particular care that it needs. There are some varieties, as Ben Davis and Baldwin, that thrive almost anywhere and come to approximately their full value under all ordinary methods of treatment. These are the goats of the pomological sphere. There are others that are practically worthless unless some special attention is given them. The Spitzenburg apple is one of these, an apple that is not "run out," as popularly supposed, but forced out because it does not have soil of sufficient heart, and does not receive sufficient care in tilling and pruning and spraying. Many of our really good varieties are going out because of this lack of special care. I am aware that the special care is expensive, but nevertheless there are many people who would like to grow these varieties if only they knew how. In many cases the extra care would be well repaid in an extra price for the product. Are we not likely to have a reaction from the Kieffer pear propaganda, when some, at least, of the varieties that it has driven out shall reappear? If not, then the ideals of pear growing are lowering rather than rising. But the larger side to this whole question is that we really cannot expect to make great permanent progress in varieties until we make corresponding progress in the care we give them. We will continue to have razor-back varieties as long as we continue to give razor-back care. Merely to get a variety is only half the battle. You cannot raise good sheep on the provender that you give a Billy goat.

M. McDONALD.

M. McDonald was born Oct. 14, 1861, in Western Ontario, Canada. His early life was spent on his father's farm. At the age of twenty-one he engaged with Stone & Wellington, of Toronto, Canada, as traveling salesman. After one year with this firm, McGill Bros., of London, Ontario, secured his services and he continued with them until 1891 when he formed a partnership with Mr. A. McGill, the junior member of the firm, McGill Bros., under the firm name of McGill & McDonald, and immediately these two young men started for the Pacific Coast, arriving in Salem in the spring of 1891. They at once saw the superior advantages of soil and climate of the Willamette Valley for nursery purposes and decided to locate in Salem. In 1894 they organized the Oregon Nursery Co., of which Mr. McDonald became its vice-president. Upon the reorganization of the company in 1896, he became its president, which position he now holds.

From a small beginning he has seen his company grow under the management of himself and Mr. McGill, until it far surpasses in volume of business any other nursery on the Pacific Coast.

Being always alive to the interest of the nursery business, he took an active part in forming the Oregon Nurserymen's Association, and in 1895 and again in 1896 was elected as its president. When the Pacific Coast Nurserymen's Association was organized last January he was chosen as its first president.

COLORADO CONDITIONS.

Mr. Shields, of the Colorado Nursery Co., Loveland, Colo., called upon Western New York nurserymen last month. He was in search of a carload of Plum and Cherry, but found them very scarce and bringing \$20 to \$25 per hundred. Mr. Shields says there is a surplus yet of Apples in the West, but the scarcity of seedlings will change this condition.

"We have practically no root gall and very little aphid in Colorado," said Mr. Shields. "We are using the Rocky Mountain Cherry as a stock upon which to graft Plum and Peach. The effect is a dwarfing which we can turn to good account in laying down Peaches and Plums so grown, in the winter, and covering, as we do small fruits. Such trees are prolific bearers. The Pennock Hybrid Cherry is a cross of Rocky Mountain Cherry and Plum. It is a heavy bearer and I think will prove popular."

BISSELL-HOOD SUIT DECIDED.

The suit of E. H. Bissell against W. T. Hood has been finally decided in a manner entirely creditable to W. T. Hood.

The case was twice before a commissioner in chancery, who both times reported in Mr. Hood's favor. The Law and Equity Court of the City of Richmond decided it in Mr. Hood's favor; and when Mr. Bissell as appellant carried the case to the Supreme Court of Appeals of Virginia, that court in concluding its opinion against Mr. Bissell's contentions, said:

"We have given the entire record a careful consideration, and feel satisfied that the appellant has not been prejudiced by the decree complained of. It appears to us that the commissioner has stated the account according to the true intent and meaning of the contract between the parties, dealing liberally with the appellant by solving, as stated in his second report, every doubt in his favor, and that his conclusions are sustained by the evidence. To give effect to the views urged on behalf of the appellant in support of his several exceptions to the reports would involve a wide departure from the contract, if not a total disregard of its terms."

COLD STORAGE THROUGH SUMMER.

The experiment by a Western New York nursery company to carry over this summer 70,000 apple trees in cold storage, at a temperature of 32 degrees, has caused some interest in such a proposition. But nurserymen generally are doubtful of results and some declare they would be sorry to see the practice become general as it would have a demoralizing effect upon the market.

FLOOD LOSSES AT TOPEKA.

Peters & Skinner, North Topeka, Kan., have received reports from nurserymen in their locality regarding losses in nursery stock by the floods. They find that the per cent of loss is about as follows:

Apple grafts, 60 per cent. lost.
Apple coming 2 years, 25 per cent.

lost. Apple seedling, 80 per cent. Peach coming 1 year, 65 per cent. Peach seedling, 40 per cent. Cherry coming 1 year, 60 per cent. Cherry coming 2 years, 6 per cent. Mahaleb stocks, 50 per cent. Plum stocks, 30 per cent. and grape cuttings, 50 per cent. lost.

This statement includes only the nursery stock about Topeka and does not include the loss near Kansas City.

AMERICAN SEED TRADE ASSOCIATION.

The twenty-first annual meeting of the American Seed Trade Association was held at Atlantic City, N. Y., June 23-26. The attendance was 150. Papers on "Limiting Our List of Varieties," "Free Seed Distribution by the Government," "Vine Seeds," "Trials in Peas and Beans" were read. These officers were elected: President, S. F. Willard, Wethersfield, Conn.; secretary-treasurer, C. E. Kendel, Cleveland, O. The next convention will be held in St. Louis.



M. McDONALD.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., AUGUST, 1903.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, N. W. Hale, Knoxville, Tenn.; vice-president, Frank A. Weber, St. Louis, Mo.; secretary, George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.
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Committee on Program—J. H. McFarland, Harrisburg, Pa.; Harlan P. Kelsey, Boston; Charles A. Ilgenfritz, Monroe, Mich.
Committee on Publicity—Ralph T. Olcott, Rochester, N. Y.; Orlando Harrison, Berlin, Md.; Prof. W. G. Johnson, New York City.
Committee on Exhibits—R. C. Berekmans, Augusta, Ga.; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.
NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.
EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, A. L. Brooke, N. Topeka, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.
SOUTHERN NURSERYMEN'S ASSOCIATION—President, John C. Miller, Rome, Ga.; secretary, J. C. Hale, Winchester, Tenn. Meets at Winchester, Tenn., in August, 1903.
SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.
PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, A. Miller, Portland, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Organized at Portland, Ore., January, 1903.

THE SOUTHERN ASSOCIATION.

The fifth annual meeting of the Southern Nurserymen's Association will be held at Winchester, Tenn., August 19th. Special inducements are offered to nurserymen attending this convention. True southern hospitality is evinced by the fact that the citizens of Winchester have generously agreed to join the nurserymen of Winchester in entertaining the visitors and delegates to this convention at the Mont Miller hotel free. Wives and children are invited; all will be entertained without cost. There will be a two-day excursion to Huntsville, Ala., on August 21-22, the entire cost, railway fare and hotel bills, to be borne by the Huntsville nurserymen. A program for the Winchester convention is being prepared. Those who expect to attend should notify the secretary, J. C. Hale, Winchester, Tenn.

HORTICULTURAL SCIENCE.

It is proposed that there be organized a society for horticultural science, the object of which should be more fully to establish horticulture on a scientific basis. Professor S. A. Beach, horticulturist of the New York Experiment Station at Geneva, is obtaining views on the subject. He says the proposition is meeting with a wide and enthusiastic reception.

Attention is called to the fact that there is a large amount of general scientific work, especially in plant physiology and physiological chemistry, which has a direct and important horticultural bearing, but which is not making the impress it should on horticultural investigation. This work should be reviewed from the standpoint of the horticulturist. It is thought, too, that such a society as is proposed would afford opportunity for the differentiation of scientific and technical from popular features in the presentation of results. Such a society would not supplant any existing horticultural activities, but would supplement all of them.

It is proposed to hold the first meeting in connection with the meeting of the American Pomological Society in Boston, September 10-12.

ATTITUDE TOWARD LEGISLATION.

One of the most important things with which the American Association of Nurserymen has to deal is legislation affecting the trade. The experience of the nurserymen has shown that it is necessary to keep close watch of propositions before the state and federal legislative bodies, so that the interests of the trade may be presented for consideration before action is taken. If this close attention had been provided for at all times, several of the stringent laws now upon state statute books might not have been there, it is believed. The legislative committee of the American Association warded off the passage of a federal bill that would have been objectionable to nurserymen; and now, by action of the Association at Detroit, the state vice-presidents are expected to keep each other informed of proposed legislation and so inform all the members of the Association, to the end that as much may be known of measures before state legislatures as has been known of the federal bill before Congress. This is a good theory and if each state vice-president will actively support the plan, there is no reason why it should not work out well in practice.

The vice-president for Virginia, K. Morton, for instance,

finds upon investigation after his return from the convention, that one of the strongest supporters of the Virginia license bill in the legislature is a nurseryman and large orchardist, and that the outline of this law was drawn up and presented before the State Horticultural Society, many members of which are nurserymen, and not one objected at the time, though several are complaining now. In West Virginia, Mr. Morton reports, the license law is not being vigorously enforced as yet.

M. McDonald, vice-president of the State of Oregon, remarked significantly while he was in Rochester: "It is a good thing to discuss legal measures enacted and proposed and determine what is best for the nursery interests generally. I would not like to go back to the old way of doing business without laws especially affecting it. I believe that regulations regarding inspection and transportation have raised the standard of the business, and that with proper laws we shall get along better.

"In my opinion," continued Mr. McDonald, "we should not seek to fight legislation; but should seek to guide it, going before legislative bodies and explaining the requirements of our business so that legislators may act intelligently."

We believe that Mr. McDonald has expressed the sentiment that should actuate the Association. Of course in the case of an established law that is regarded by the nurserymen as unfair, or, as in the case of the license laws of Virginia and West Virginia, as unconstitutional, it is conceded that the law should be contested, rather than submitted to. But the greatest service will result from a guidance of legislation, and we believe that the move of the state vice-presidents in this direction may easily prove of the highest importance.

PEONY CULTURE.

There is much demand at present for the Peony. Renewed interest in this flower has been manifested and the formation of the American Peony Society in Detroit in June, it is expected, will result in the classification of the varieties according to an accepted standard. In Europe and Asia the chief use of the Peony is as a landscape subject. In America it is used mainly as a cut flower. In the West a number of growers have fields of ten acres or more, cutting the blooms by hundred thousands in a single season, having cold storage for retarding them so they can be marketed as late as August, the flowers retailing at \$1 to \$4 per dozen. The demand for plants is very heavy. One grower will plant 10,000 Festiva Maxima, the best white one for cut flowers. Recently a single plant of Jenny Lind was sold, it is said, for the record price of \$1,000 by C. Betscher, of Canal Dover, O., to C. W. Ward, Queens, N. Y.

GOVERNMENT DISTRIBUTION.

Secretary Wilson, of the Department of Agriculture, announces in his annual report that the method of securing seed for distribution under act of Congress, from a contractor, has been abandoned, as it was never satisfactory, offering opportunity for inferior service, and, besides, working a hardship on the seed trade of the country, something the Department has no desire to continue. Under the new system the Department secures its own seed in the open market, and contracts only for the purely mechanical features of the work, such as

the packeting of the seed and the mailing. The Department will gradually substitute new or little-known seeds, such as specialties or novelties, for the more common sorts heretofore distributed.

"Seedsmen are now co-operative with the Department" says Secretary Wilson, "in furnishing these specialties and novelties, and the Department will distribute them possibly only one year, dropping them then and allowing the demand, if demand there be, to be met by the regular trade."

It has been found that promiscuous distribution of seeds and plants, many of which are of great value, does not give in all cases satisfactory results. Therefore the Department proposes to establish in a number of places in the country testing gardens.

A MORE BEAUTIFUL AMERICA.

The seventh annual meeting of the American Park and Outdoor Art Association was held in Buffalo, July 7th, with an attendance of 250. Among those present were C. J. Maloy, Rochester, N. Y.; Thomas B. Meehan, Dreshertown, Pa.; Charles Dawson, Minnie Dawson, of Eastern Nursery, Jamaica Plain, Mass. "A more beautiful America" is the aim of the association, and while the removal of billboards and the soot and smoke nuisance are among the reforms advocated, the improvement of the landscape as bearing upon the nursery business is an important part of the work of the association.

This is one of the many far-reaching sources of advancement of the nursery business which are being fostered entirely independent of trade efforts. The education of the public effected through this association on the subject of the importance of ornamental trees and shrubs should be of direct benefit to the nursery trade throughout the country.

The association re-elected Clinton Rogers Woodruff, of Philadelphia, president. Charles M. Robinson, Rochester, N. Y., is the secretary. Among those who participated in the program were Prof. L. H. Bailey, John C. Olmsted, Hon. Andrew H. Green, Mrs. Herman J. Hall and Mrs. Frances Copley Seavey.

The press of the country is practically unanimous in its denunciation of the free distribution of seeds by the government and now it is charged publicly by the United States authorities that there were frauds in relation to the contract for providing seeds for such distribution. In the face of all this, Congress continues the practice. The Secretary of Agriculture can only act as wisely as possible under the mandate of his superiors.

We present in another column abstracts of the laws in the Virginias, which it is believed are unconstitutional and which the legislative committee of the American Association was directed at the Detroit convention to test as to legality.

PARK AND CEMETERY WORK.

Park Improvement — At Manchester, Mass.; Lincoln, Neb.; St. Joseph, Mo.; Pekin, Ill.; Seattle, Wash.; York, Pa.; Traer, Ia.; Central Park, New York City; South Park, Des Moines, Ia.

Cemetery Improvement — At Mt. Olivet Cemetery, Dubuque, Ia.; Mt. Pleasant Cemetery, Sioux Falls, S. D.; Catholic Cemetery, Butte, Mont.; Fairview Cemetery, Acton, Ont.; Elmwood Cemetery, Owensburg, Ky.; Des Moines, Ia.

A DETROIT ANTHOLOGY

Extracts From Papers Presented at the American Association Convention—Practical Suggestions for the Trade.

Lack of space prevents the reproduction of all the papers that were presented at the Detroit convention. Provision for such reproduction is made in the official proceedings. We present herewith some extracts which show the drift of the proceedings:

A Permanent Business.

"The nurseryman who wants a profitable and permanent business can find no surer way than by guiding intending planters towards the purchase of the most suitable varieties, regardless of any surplus stock he may have of less desirable sorts."—J. H. Hale.

A Proud Monument.

"It seems to me that few men may claim a prouder monument than that which grows to crown the life work of an honest nurseryman. The orchards on mountain and plain which grew from the little trees which he started and loved and endowed with true character will keep his memory forever green."—H. W. Collingwood.

Texas Needs.

"The nurserymen of Texas are in sore need of closer organization. Some are up-to-date, others are behind the spirit of these progressive times. We are all wanting a more generous sympathy and fraternal co-operation with each other and with our patrons. We think it good policy to encourage the planters to engage with us in the work of improving and even propagating varieties, thus enlisting more interest in all horticultural work."—E. W. Kirkpatrick.

Ought to Stand for More.

"The American Association of Nurserymen ought to stand for more than it has, as an organization of business men representing nearly every state in the Union, with a capitalization of \$55,000,000, a property valuation of \$45,000,000, a working force of 60,000 persons, and a growing stock of more than three billion plants and trees, according to the last federal census."—Ralph T. Olcott.

One Vast Sanitarium.

"The nurserymen of Texas have no protective laws to keep out the pestiferous bugs and humbugs, the scales and aphides, the injurious diseases such as root-knot and what-not, so much talked of in other states. The result has been that we are and have been the constant and universal dumping ground of all infected, diseased, rejected and condemned stuff from other states, yet we are troubled with none of these things because our state is one vast sanitarium for all plant ailments and these pests and diseases are eliminated immediately in coming in contact with our atmosphere, thus rendering us immune."—E. W. Kirkpatrick.

Old Customers the Best.

"There is something wrong in a nursery that is always seeking new customers; old customers should be our best ones and will be if care is taken always to give them the best stock you have and never sell them a variety you would not plant yourself."—J. H. Hale.

Spiritual Side of Fruit Growing.

"It seems to me that the honest and conscientious nurseryman who is true to his business comes closest to what I call the spiritual side of fruit growing. Such men put character, hope and promise into worthless sticks of wood."—H. W. Collingwood.

General Publicity Favored.

"Perhaps you will question my judgment when I say to you that I verily believe that this Association could wisely expend an advertising appropriation upon general publicity that would induce people to use fruit more largely. California has done more along promotive lines in this direction than any other state; in fact, than all other states combined. Two or three years of general advertising would make a demand for nursery stock such as this country has never dreamed of and the question of price would be secondary; the question of quality uppermost. Your business or profession would be elevated to a higher plane. You are all ready for such a campaign. All that is needed is backbone and money."—Frank B. White.

Assist the Experiment Stations.

"It is our duty to see that our legislatures make more liberal appropriations for experiment stations; and it is our duty to furnish to the stations freely samples of all new plants and trees a few years before introduction if possible."—J. H. Hale.

The Golden Rule.

"There are men in your business who come as close in their desire to carry out the principles of the Golden Rule as any who deal with their fellows. In twenty years of business I have never heard one word of complaint of a score of nurserymen that I could mention. They settle every question promptly and cleanly. Such men honor an honorable business. On the other hand there are men about whom we constantly receive complaint of mixed varieties, stock untrue to name and weak or diseased trees. I conclude that it is true in the nursery business as in other things, that a man stamps his character and care, such as it is, upon everything that leaves his hands."—H. W. Collingwood.

The Nurserymen at St. Louis.

"Fifty acres at the St. Louis Exposition grounds are being laid out entirely in the interests of such nurseryman and florists as desire making exhibits upon them. It seems to me that one striking and really effective thing which the nurseryman can do will be to place in the hands of the Department of Horticulture everything he has of a new and unusual character. There will of course be exhibits of all those things which are common and everyday, but the nurseryman who does not seize this opportunity to show his fellow craftsman or the public in general such things as he has discovered or been able to improve is not living up fully to his opportunities. We hope particularly to be able to bring together in one group or portion of the grounds the distinctly American shrubs and trees.

"I think those of us who have spent many years in the growing of nursery stock have felt very many times that many mistakes have been made in the introduction of those things which have been perhaps for a long period of time valuable in climates and under conditions entirely different from those in which we must place them. It has seemed to me for many years that from our own woods and out of our own mountains and growing along the streams and in our own valleys are scores of things which if treated as well as we treat cultivated plants in our gardens would far excel many of those imported things which have frequently disappointed us.

"I think perhaps the one thing from all the exhibits which should really be of most use to the nurserymen themselves will be the special exhibits which are to be brought together in one place of the different varieties of fruits as grown under varying conditions."—Frederic W. Taylor.

To Advance American Association.

"If some of the discussion that is usually confined to groups of two or three or five in the hotel lobbies at the conventions, regarding practical nursery topics, the season's trade, the price of stock, the amount of planting, the prospects, and the methods that have been found successful under special conditions, were given wider publicity by being transferred from the hotel lobby to the floor of the convention, in addition to the topics of the program, and the active operation of the question box, the annual gatherings of the American Association of Nurserymen would be of so great value that not a nurseryman in the country would feel that he could afford to miss a convention or remain outside of the organization. There should be at least one thousand names on the secretary's roll."—Ralph T. Olcott.

The Proportion of Rogues.

"I do not believe that the rogues and frauds in the nursery business represent as large a proportion as the black sheep in other lines of trade. One would think so to hear what buyers say. But we must remember that the rogues are advertised by every disappointed victim, while the honorable men must advertise themselves."—H. W. Collingwood.

Will Pay Extra For Good Trees.

"I am sure there is a generation of planters growing up who will gladly pay any extra cost of propagation to the nurseryman who will propagate from fruiting stock only."—J. H. Hale.

Recent Publications.

In "A Primer of Forestry," Gifford Pinchot, U. S. forester, presents in popular form valuable information.

Country Life in America for August contains articles on protecting shade trees, the growing of water lilies, apricot culture, etc. The World's Work has a number of articles of interest to lovers of nature.

One of the most valuable and convenient publications of the Department of Agriculture is the "Directory for Farmers," a reprint from the Yearbook of the Department, corrected to April 1, 1903. It is replete with useful information.

A valuable book of reference is the Yearbook of the U. S. Department of Agriculture for 1902. It is a volume of about 900 pages, of which 124 pages are devoted to the annual report of the Secretary of Agriculture, 534 to miscellaneous articles, 200 to the appendix, and about 30 to the index. It is illustrated with a frontispiece, 71 half-tone and 16 colored plates, and 62 text figures.

Those who heard William C. Barry's interesting address at the Detroit convention, on "The Importance of Ornamental Stock to the Nurseryman" will be entertained and instructed further by a perusal of the article by L. C. Corbett, horticulturist of the Bureau of Plant Industry at Washington, on "Plants as a Factor in Home Adornment" in the U. S. Department of Agriculture Yearbook for 1902.

Parts 1 and 2 of the Massachusetts Horticultural Society's Transactions contain much valuable matter, including a discussion of Systematic Pomology by Prof. F. A. Waugh; a lecture on "The Apple as a Money Crop for New England," by F. C. Richards, Williamsburg, Mass.; information regarding home and school gardens, and portraits of Robert Manning and Horatio H. Hunnewell.

The President of the United States, the secretary of a great lumber company, R. L. McCormick, and the Chief of the U. S. Bureau of Forestry, have contributed papers to a bulletin showing that forestry is necessary for the perpetuation of the lumber industry in this country. Never before has this statement been given such authority, nor has the urgent need of forestry on lumber tracts been so emphatically set forth.

"Practical Farm Drainage" is the title of a book by C. G. Elliott, Drainage Engineer, Tonica, Ill. It describes conditions requiring drainage and the effect of tile drains upon the soil. The manner of constructing drains, the cost and the profits are detailed. The use of ditching machines and the improvement of roads are also discussed. 12 mo. viii—92 p 25 figures. Cloth \$1. New York: John Wiley & Sons. London: Chapman & Hall.

Many nurserymen will be interested in a bulletin, No. 71, of the Bureau of Chemistry, U. S. Department of Agriculture, on the subject of cider making in France, Germany and England, with comments and comparisons on American work, by William B. Alwood, special agent of this government. The bulletin gives detailed information regarding the classification of ciders and the processes of manufacture. The bulletin is the result of a strong interest in the possibilities of making a pure sound cider from our apples which may serve as a light American wine so cheap and wholesome as to be usable by everybody, and as a secondary product a fine apple vinegar. Nurserymen who are orchardists especially would do well to study this bulletin.

We have received a copy of the new catalogue of greenhouse heating and ventilating apparatus issued by Lord & Burnham Co., Irvington-on-the-Hudson, N. Y. It is a publication appropriate to the high-grade productions of this well known establishment. It contains suggestions on greenhouse heating, an open tank system of hot water heating, and estimates and descriptions of apparatus, fully illustrated, which it is believed is the most complete ever put upon the market and the nearest to meeting every want. The catalogue contains several new pages, showing additional patterns added to the former list of cast iron fittings for caulked joints for 2 in., 3½ in. and other sizes of pipe; a full line of pipe chairs and hangers for all kinds of greenhouses; new patterns for ventilating apparatus; the latest patterns for "Burnham" sectional steam and water boilers; also a complete line of "Burnham" boilers, etc. The catalogue will be mailed to any inquirer upon receipt of five cents to cover postage.

One of the most valuable publications for the business man, and especially for the shipper and traveling man, is the "Official Railway Guide of the Railways and Steam Navigation Lines of the United States, Porto Rico, Canada, Mexico and Cuba." The Official Guide is the largest periodical in the world, as it publishes each month over 1,200 pages. Its time tables are always up to date, and it gives the latest information in regard to changes in officers, runs of through cars, etc. Its Index of Stations includes the names of over 60,000 points in the United States, Canada and Mexico, giving the road upon which each is located. It is used by nearly every large shipper in the country, for the routing of freight, as well as by railway ticket agents, hotels, tourist agencies, etc., for the routing of passengers. The Guide serves as a handy gazetteer showing every place in the countries named that is reached by a transportation company. Published monthly. 75 cents. New York: National Railway Publication Co.

Long and Short.

Russian Apricot seedlings may be obtained of J. A. Gage, Beatrice, Neb.

Apple trees, complete list, can be had of South St. Louis Nurseries, St. Louis, Mo.

George Achelis, West Chester, Pa., has a fine line of fruit and ornamental stock.

Grape vines and Currant plants are specialties with Wheelock & Clark, Fredonia, N. Y.

75,000 pot-grown Strawberry plants is the offer of T. J. Dwyer & Son, Cornwall, N. Y.

B. Muellerklein, Karlstadt, Bavaria, Germany, offers Currants and Gooseberries at attractive prices.

Fall bulbs and plants; 50,000 Shasta Daisy plants may be had of James Vick's Sons, Rochester, N. Y.

Apple, Pear, Plum and Peach, by the carload, are offered by the Pioneer Nursery Co., Salt Lake City, Utah.

Fruit and ornamental stock in standard varieties, forest tree seedlings and tree seeds at Donaldson & Gibson's, Warsaw, Ky.

August Rolker & Sons, 31 Barclay St., New York, are importers of high grade stock grown by Elmiere Sebire, Ussy, Calvados, France.

James M. Kennedy, Dansville, N. Y. offers a general line of nursery stock. He makes a specialty of Cherry and Plum, one and two years.

4,000,000 Peach, the largest stock of peach grown by one man in the United States, is the announcement of J. C. Hale, Winchester, Tenn.

Peach and Apple, California Privet, Grape vines, Asparagus roots and Strawberry plants are specialties with W. M. Peters' Sons, Snow Hill, Md.

Manetti and Mariana stocks, one year Cherry, one and two-year Standard Pear and ornamental stock are offered by the Fraser Nursery, Huntsville, Ala.

One million June-bud Peach, large stock of 2-year Apple, one-year Pear and Cherry, and western-grown Apple seedlings are offered by Chattanooga Nurseries, Chattanooga, Tenn.

W. T. Hood & Co., Richmond, Va., have a fine line of fruit and ornamental stock. They would like quotations on Apple, Standard Pear and small-sized Peach for Fall delivery.

Carload lots of Apple, Peach, Plum, Cherry, Pear, Grape, etc., may be had of Stark Bros. Nurseries and Orchards Co., Louisiana, Mo. Also Apple seedlings, small fruit plants, etc.

George Dyer in his comment in the July issue of Mahin's Magazine remarks that an old volume of Harper's Magazine shows an advertisement of Maher & Grosh, pocket knives, with an excellent specimen of mail order advertising.

KEEP POSTED.

Nursery news is your specialty. Nowhere else can you get it except in the NATIONAL NURSERYMAN, the official journal of the American Association. \$1 per year in advance.

ON EXCHANGE.

The tree man is a man of truth,
He cannot tell a lie ;
He's been in training from his youth,
And that's the reason why—why,
That's just the reason why.
The tree man cannot tell a lie,
I'm sure I know the reason why !

If you have ordered plum or peach,
And he has sent you pears,
Do not denounce him I beseech,
He did it unawares—wares—
He did it unawares.
The tree man has so many cares,
Perhaps he did it unawares !

If you have paid for Duteman's pipe,
And get grapevine instead
Do not revile him as a "snipe"
Nor try to punch his head, head,
Nor try to punch his head.
The dealer mixed them in the shed,
You'd best not try to punch his head !

If you receive, for canna plants,
Some sprouted dahlia toes,
Don't "blow him up," at your first chance,
Nor disarrange his clothes, clothes,
Nor disarrange his clothes.
Poor man ! His life's so full of woes,
I would not muss his Sunday clothes !

You'd best pay up whatever's due,
And claim you like your crop—
He meant to do his best by you,
So let your grievance drop, drop.
Just let your grievance drop.
The practice of exchange may stop
When tree men's prices reach the top !

HELEN HEWITT GREEN.

A BUSINESS PROPOSITION.

A subscription for the trade journal that represents your trade is a business proposition. You will not find the nursery news in the daily or horticultural press. Send \$1 to the National Nurseryman Publishing Company, Rochester, N. Y., and receive all the issues for a year.

G. L. Knight, Lawrence, Kan., called upon old Rochester friends during the latter part of July.

The twenty-seventh annual meeting of the Georgia Horticultural Society will be held at Athens, Ga., August 3-4.

The wholesale department of Thomas Meehan & Sons, Inc., at Dreshertown, Pa., are erecting an addition to their large packing houses. This will give them additional floor space in their packing houses of over 3,000 square feet.

Subscribe for the NATIONAL NURSERYMAN. \$1 per year.

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PERSHING & CO.,

142 Michigan Street, SOUTH BEND, IND.

4,000,000 PEACH TREES

Largest stock of Peach grown by any one man in the United States. Write me before you place your order for Fall of 1903 and Spring of 1904.

TENNESSEE WHOLESALE NURSERIES,

J. C. HALE, Proprietor.

Winchester, Tenn.

TREE-BOX LUMBER

We are shipping to many of the largest nurseries all of their Tree-Box Lumber and they are SAVING MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

We want to hear from you.

Write us today for prices, etc.

GOODWILLIE BROTHERS,

407 New York Life Bldg., Chicago, Ill.

Saw Mills and Factory,
WAUSAU, WIS.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

39 AND 41 CORTLANDT STREET, NEW YORK.

Sole Agent for United States and Canada.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"In the realm of horticulture we have wonderful opportunities for the development of character."—HON. CHARLES W. GARFIELD.

Vol. XI.

ROCHESTER, N. Y., SEPTEMBER, 1903.

No. 9.

SOUTHERN ASSOCIATION.

***Fifth Annual Convention Held at Winchester Under the Most
Delightful Conditions — The Entire Party Received as
Guests of the Local Nurserymen on the Whole
Round — Two Days' Excursion to
Huntsville, Alabama.***

The following summary of the fifth annual convention of the Southern Nurserymen's Association has been received from Charles T. Smith, of Concord, Ga. A full report of the convention will be published in our next issue :

The fifth annual meeting of the Southern Nurserymen's Association will live long in the memories of the seventy-five members who were so fortunate as to be in attendance at the recent convention in Winchester, Tenn. It was unanimously, individually and collectively voted by the members to be a model convention, entertained in a model town, by a people who were past masters in the fine old art of Southern hospitality. It will go down into history as the most business-like meeting of this already celebrated organization of the Southern nurserymen. The sessions were well attended by an interested and enthusiastic audience, who were glad to impart information and entertainment to each other. The best of order prevailed throughout the four days that were devoted to the meeting and to the nursery excursions. A number of charming ladies, the nurserymen's wives and sweethearts, were in attendance and formed an attractive part of the assemblage, which lent an additional charm to the meeting.

True to Southern traditions, the entire party were received as the guests of the local nurserymen on the whole round, and the entire entertainment, including all carriage drives, the Huntsville excursion and every other courtesies were furnished free to the visitors by the local nurserymen. A handsomer schedule of entertainment could hardly have been conceived and the visitors will never forget the genial, whole-souled hospitality of the Winchester and Huntsville people. They were not met at the gates of the city by delegations from the king, with jeweled keys, as was the custom in some eastern country of olden times ; but instead they were presented with the golden keys to the hearts of the good people of those two famous nursery centers.

On arrival at the depot in Winchester, the visiting nurserymen were met by carriages and escorted to the Mont Miller hotel, which was made headquarters for the visitors and where they were made to feel thoroughly at home by the proprietress, Mrs. Fuller, assisted by the local nursery people. The meeting was called to order by President Miller at 10 o'clock on the morning of August 19th and the morning, afternoon and evening sessions were replete with entertaining and instructive addresses, papers and discussions. The entire proceedings

might well be set up as a model of what every nurserymen's convention should be.

The second day was devoted to visiting the several nurseries of Winchester, and though the entire day was consumed, the round was not completed. Among the large plants visited were those of the Tennessee Wholesale Nurseries, the Southern Nursery Company and the Cedar Hill Nursery Company. They all showed evidences of close attention and careful cultivation and the millions of trees were much admired.

The next day, August 21st, the entire party, consisting of nearly one hundred of the nurserymen and their families, were carried to Huntsville on a special train furnished by the Huntsville nurserymen for the purpose. They were met at the depot by carriages and were carried out to the splendid plant of the Huntsville Wholesale Nurseries.

Arriving about noon all were directed to a beautiful grove where an old-fashioned barbecue, an institution peculiar to the South, was served. The large number of guests were seated at a long table, and the attentive force of waiters under command of Mr. Bell, the superintendent, served the tempting viands in a manner that would suit a party of oriental kings. The dinner was presided over by Mr. Heikes, assisted by Mr. Moss, and was followed by eloquent and effective speeches by several members of the party. Following this came a drive over the nurseries, with occasional stops at shady spots where refreshing drinks were served. This plant consists of about 700 acres closely set to fruit trees and ornamental stock which was in splendid condition. The Pear, Cherry and June-budded Peach were unusually handsome and deserve special mention. After a drive of several hours over this immense plant, the drivers were directed back to Huntsville and the nurserymen were registered at the Huntsville Hotel as the guests of the Huntsville nurserymen.

The following morning at 8:30 a long line of carriages were drawn up in front of the hotel for the last day's drive. The forenoon was taken up with a trip over the magnificent plant of the Alabama Nursery Company, where the perfection of "Chases' Alabama Grown" was given ocular demonstration. Here was found upwards of 500 acres of as fine nursery stock as ever grew. The broad fields of Pear, Cherry, Peach, Roses and other stock were a sight never to be forgotten by a genuine nurseryman. The whole place is laid out in handsome style and every detail of the entire establishment shows the careful attention of the master minds of this trio of young but famous Chases.

Everything on the place, from the elegant homes of the proprietors which rest in a beautiful park on an elevation, to the most distant point exhibits the good taste and fine business judgment by which the place is managed. It is a model plant and one that all progressive nurserymen should visit and study. At noon an elegant luncheon was served under the shade of some of the magnificent oaks that help to beautify the place.

The menu was unique and the nurseryman who has not got a copy of it is not up to date. The restful shade, together with the delicious repast with the eloquent oratory that followed combined to make up an occasion that will long be remembered by the members of the Southern Nurserymen's Association who were so fortunate as to be present.

At 2 o'clock in the afternoon the party boarded the train for the return trip, thus ending up the most pleasant and complete convention trip in the history of the Southern Association, and one which we think other associations of a similar character might well study and emulate.

W. T. Hood, the largest grower of nursery stock in Virginia, and one of the most thorough and best-posted nurserymen in the United States, was unanimously elected president; Henry Chase of Huntsville, Ala., vice-president; J. C. Hale, secretary and treasurer.

The Association will meet at Asheville, N. C., in August, 1904

Regarding the convention, K. Morton, of Richmond, says in the Richmond Times-Dispatch:

The country around Winchester, Tenn. and Huntsville, Ala., seems to be made to order by nature for the growth of nursery stock, and the many nurseries that cover that section show that those people have accepted nature's gift and are improving their opportunities. It is simply wonderful to contemplate the millions upon millions of fine growing stock to be seen in those fertile valleys. And if nature has been kind to these nurserymen it has also given them the spirit of a most abundant hospitality, and the many visitors will never forget the warm and cordial welcome given them this year by the nurserymen and citizens of Winchester, Tenn., and Huntsville, Ala., and will all join in wishing that their Camps will always be in sunshine, that their Shadows will never grow less, and all their efforts will be crowned in a Hale(o) of glorious success, and that while Old Glory floats, Huntsville nurserymen will ever keep up in progress with its glory in the persistent Chase for improvement and enterprise, and that no Moss will ever attach to impede the rapid success made by their enterprising management

NEW AMERICAN ASSOCIATION COMMITTEE.

President Hale has appointed the following as a committee on the cost of growing trees, in accordance with the action of the Detroit convention of the American Association of Nurserymen: Wilson J. Peters, Troy, O.; W. F. Heikes, Huntsville, Ala.; Theodore Smith, Geneva, N. Y.

Peach seed can be had of F. T. Ramsey, Austin, Tex.

Two hundred thousand surplus Apple trees are offered by Marble City Nursery Co., Knoxville, Tenn.

L. A. Berckmans, Augusta, Ga., called upon Western New York Nurserymen during the latter part of August.

Secretary Seager has issued the proceedings of the Detroit convention of the American Association of Nurserymen in book form.

A. C. Griesa, Lawrence, Kan., offers a choice stock of Apple and Peach trees in all sizes; also a full line of other trees and shrubs.

J. W. Adams & Co., Springfield, Mass., offer an attractive list of ornamentals in another column. Seedlings as well as specimen trees.

McNary & Gaines, Xenia, O., proprietors of the Xenia Star Nurseries, have a general line of superior stock, grown especially for the wholesale trade. Their leading specialty is the Opalescent Apple.

The Griffing Brothers' Company, Jacksonville, Fla., have a very complete line of Figs, Muscadine Grapes, Budded Pecans, and Japanese Persimmons which nurserymen of the South and Southwest would do well to consider.

The firm of Donaldson & Gibson, Willadean Nurseries, Warsaw, Ky., was dissolved on August 4th by mutual consent. J. F. Donaldson will conduct the business under the name of the Donaldson Company, D. E. Gibson, retiring.

NURSERY INSPECTION

States in Which Duplicate Certificates Must be Filed—States That Have No Laws—Officials Who Will Supply Full Information as to State Law in Each Case.

The New York Department of Agriculture has issued a summary of the regulations in the several states regarding the inspection of nursery stock. We have several times listed these laws in the NATIONAL NURSERYMAN. In some of the states there are no laws relating to nursery stock, but certificates are issued to nurserymen for use outside of those states by entomologists.

Duplicate certificates are required for filing in the states of Alabama, Georgia, Maryland, Michigan, North Carolina, Virginia and Wisconsin.

The following states have no laws relating to nursery stock: Arizona, Arkansas, Florida, Kansas, Mississippi, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Rhode Island, South Dakota, Texas, Vermont, Wyoming.

Full particulars regarding the state law in each case may be obtained by addressing the gentlemen named below:

Alabama—State Horticulturist, Auburn, Ala.; California—Alexander Crow, Ferry Bldg, San Francisco, Cal.; Colorado—State Board of Horticulture, Denver, Colo.; Connecticut—W. E. Britton, New Haven, Conn.; Delaware—Wesley Webb, Dover, Del.; Georgia—W. M. Scott, Atlanta, Ga.; Idaho—A. McPherson, Boise, Idaho; Illinois—S. A. Forbes, Urbana, Ill.; Indiana—J. Troop, Lafayette, Ind.; Iowa—H. E. Summers, Ames, Ia.; Kentucky—H. Garman, Lexington, Ky.; Louisiana—H. A. Morgan, Audubon Park, La.; Maine—A. W. Gilman, Augusta, Me.; Maryland—T. B. Symons, College Park, Md.; Massachusetts—H. T. Fernald, Amherst, Mass.; Michigan—L. R. Taft, Agricultural College, Mich.; Minnesota—F. C. Washburn, St. Anthony Park, Minn.; Missouri—J. M. Steadman, Columbia, Mo.; Montana—C. H. Edwards, Butte, Mont.; New Hampshire—Charles M. Weed, Durham, N. H.; New Jersey—John B. Smith, New Brunswick, N. J.; North Carolina—Franklin Sherman, Jr., Raleigh, N. C.; Ohio—A. F. Burgess, Columbus, O.; Oregon—Geo. H. Lamberson, Portland, Ore.; Pennsylvania—N. B. Critchfield, Harrisburg, Pa.; South Carolina—State Board of Entomology, Clemson College, S. C.; Tennessee—Geo. W. Martin, Nashville, Tenn.; Utah—State Board of Horticulture, Salt Lake City, Utah; Virginia—J. L. Phillips, Blacksburg, Va.; Washington—A. Van Holderbeck, Tacoma, Wash.; West Virginia—James H. Stewart, Morgantown, W. Va.; Wisconsin—E. P. Sanderson, Madison, Wis.; Canada—Dr. James Fletcher, Ottawa, Ontario.

NURSERY STOCK PROHIBITED.

Prof. W. G. Johnson, New York, sends us a copy of the proclamation, referred to in this journal, issued by the governor of Cape of Good Hope Colony, South Africa, prohibiting the importation of nursery stock, as follows:

From and after the 1st day of January, 1904, peach stocks and peach stones from any country whatsoever.

From and after the 1st day of January, 1904, the importation of any fruit-tree or portion thereof, with the exception of fruit, seed, seedling stocks for budding or grafting purposes and blight proof stocks for apples, shall be allowed only by special permission from the Minister for Agriculture. No permit shall be granted for the introduction of more than ten trees or one hundred cuttings of any one variety, nor shall permits be issued for more than an aggregate of one hundred trees or one thousand cuttings to any party during one year.

FROM PRESIDENT HALE.

N. W. HALE, KNOXVILLE, TENN., Aug. 7, 1903.—“We enclose \$1 for which please send us NATIONAL NURSERYMAN. The journal meets our approval and we are glad to see it so prosperous.”

Among Growers and Dealers.

Luther Burbank has produced a stoneless prune, the Miracle.

George Hunt, Port Byron, Ill., expects soon to retire from the nursery business.

N. H. Albaugh spent several weeks of the summer in the Georgia peach orchards.

H. T. Moon, of the Wm. H. Moon Co., Morrisville, Pa., visited Cincinnati last month.

H. P. Showalter, Muskogee, Indian Ter., is contemplating entering the nursery business.

Henry L. Gaiser, Seymour, Ind., has retired from the nursery business on account of old age.

C. T. Zimmerman has purchased the Cameron Nurseries, Cameron, Mo., from John Zimmerman.

The Clinton Falls Nursery Co., Owatonna, Minn., has been incorporated; capital stock \$100,000.

August Rhotert, New York, started on a European trip August 11th, per S. S. Kronprinz Wilhelm.

American bulb growers expect to demonstrate the value of their products, at the St. Louis Exposition.

Otto Katzenstein, formerly manager of the Pinehurst, N. C., Nurseries, is starting a nursery at Atlanta, Ga.

Charles Fremd, Rye, N. Y., was thrown from his carriage August 17th. Both legs were broken. He is 71 years old.

Martin G. J. Vos is manager of the Hamilton Nursery, Paterson, N. J., where ornamentals and field-grown roses are produced.

George O. Morehouse, Lafayette, N. J., has purchased the nurseries of that place, formerly conducted by J. Frank Baekster.

A. F. Miller, Portland, Ore., will represent the horticultural and agricultural interests of the State of Oregon at the St. Louis exposition.

E. F. Stephens, Crete, and C. S. Harrison, York, Neb., read papers at the summer meeting of the Nebraska Horticultural Society, at Fremont, Neb.

The Upland Nursery Co., Bridgeport, O., has severed its connection with A. Jervis, who has been one of the officers of the company for several years.

S. A. Miller, Milton, Ore., is the president of the Pacific Coast Association of Nurserymen, instead of A. Miller, Portland, Ore., as previously reported.

W. F. Schell, of the Wichita, Kansas, Nursery Co., has been appointed superintendent of the Kansas horticultural exhibit at the St. Louis Exposition.

The Cotta Nursery and Orchard Co., which has nurseries at Freeport and Rockford, Ill., has moved its offices to the latter place where there are better facilities.

The only nurserymen in Framingham or South Framingham, Mass., or within several miles of that place, are the W. B. Whittier & Co., formerly the Framingham Nursery Co.

A. D. Field, who for twenty-five years has been in the nursery business at Indianola, Ia., will go out of the business entirely after the sales of 1904. He will grow small fruits and flowers.

William C. Eisele has laid out the grounds of the 47-acre estate surrounding the mansion of President John A. McCall of the New York Life Ins. Co., at West End, Long Branch, N. J.

William Smith of the firm of W. & T. Smith Co., Geneva, N. Y., has given a \$150,000 building to Geneva for a women's college. Mr. Smith built the Smith Observatory, the Smith Opera House and other substantial buildings in Geneva.

William Tricker, formerly in charge of the aquatic garden department of H. A. Dreer & Co., Riverton, N. J., and author of the "Water Garden," has been engaged as superintendent of the new 500-acre estate of W. K. Vanderbilt, Jr., at Great Neck, L. I.

John S. Kerr, Sherman, Tex., writes: "General crop prospects in Texas this year are fine. Good summer rains are reported throughout most of the state. Nurserymen are in good shape, have fine stocks of trees and trade promises to be very satisfactory."

Hale's orchard employs 700 men and 100 horses and mules. The cost of operating for the season of six weeks is about \$2,750 per day. One hundred thousand crates and 600,000 baskets are required to transport a season's fruit crop of the Hale orchard.—Peach Grower.

D. W. Hunter, of Chattanooga, purchased the peach crops of Messrs. J. M. Bellah, E. W. Sturdivant and W. M. Rich. Judge Bellah sold his crop for \$3,000, E. W. Sturdivant for \$1,000 and W. M. Rich for \$550. The prices paid will average about \$100 per acre.—Peach Grower.

The National Nursery Co., Denver, Colo., has a black hollyhock in its nursery, single variety. While this is not common East or West, John Charlton, Rochester, N. Y., has several plants of the black variety, and there are others in Western New York nurseries. Mr. Charlton says that Mr. Chater of England, the hollyhock specialist, years ago had black ones among his varieties.

J. H. Hale, of Connecticut and Georgia, called upon Rochester nurserymen early last month. He had finished his southern peach harvest, securing half a crop, while the State of Georgia averaged about one-third of a crop. Mr. Hale said that he and Mr. Berckmans were planning to make the visit of the American Association of Nurserymen to Atlanta next summer an enjoyable and profitable one.

Headlight, a new early grape of the Delaware group, is being introduced by T. V. Munson & Son, Denison, Tex. Prof. Beach, Geneva, N. Y., says: "Its largest berries are as large as large Delaware berries. The berries are not very uniform in size. The flavor is often suggestive of Delaware, but is less sweet and vinous. The seeds are of good size, but average less than two per berry. It is a promising new early grape."

With such representative men on the board of control at the New York experiment station at Geneva as those recently appointed, Messrs. Olin, Rouse and Ward, farmers can reasonably expect that their interests will be looked after from every point of view. This particular trio represents the live stock, nursery and floral interests, a very important combination. We bespeak for them a successful term of office.—American Agriculturist.

VIRGINIA LEGISLATION.

State Vice-President K. Morton, Richmond, Va., writes:

I have recently talked with W. T. Hood who tells me that he was very much opposed to the passage of the Virginia license law; that the outline presented to the State Horticultural Society was entirely different from the law as it stands, and that the bill was railroaded through without the knowledge of any parties who were really interested. Mr. Hood says he would have made strenuous objection to the passage of such a bill; other nurserymen say the same thing. It is hoped that there may be a revision of the law.

NEW PARK PROJECTS.

Park projects in which nurserymen dealing in ornamentals may be interested, details of which may be obtained from the sources indicated, are reported as follows:

Amsterdam, N. Y., Guy park, 25 acres. Benton Harbor, Mich., 5 acres. Carthage, Mo., Regan park. Cincinnati, considering sites for new parks. Chicago, appropriation of \$1,300,000 for development of Grant park, 205 acres; South park system to be increased by two 40-acre parks in South Chicago at cost of \$500,000, and two 40-acre parks in town of Lake, cost \$1,000,000. Dallas, Tex., contemplating bond issue for park. Hartford, Conn., plan for rose garden one acre in extent in Elizabeth park. Kansas City, Kan., \$10,000 to be spent on new park. Lake, Ill., new park of 80 acres. Lake Park, Ia., to establish new park. Maywood, Ill., to improve Maplewood park. Milwaukee, aquatic basin in Mitchell park. Mt. Vernon, Ind., 29 acres for new park. Ottawa, Quebec, plans prepared for improvement of public grounds and connecting system of boulevards. Pueblo, Colo., to purchase 157 acres for park. Sterling, Ill., to improve river islands for parks. San Francisco, proposed to establish Twin Peak, 161 acres, and extend Golden Gate park 25 acres. Troy, N. Y., Prospect park undergoing improvement. Wikesbarre, Pa., proposition to raise money for new park. Washington, residents of Georgetown have signed petition for park.

TEXANS IN CALIFORNIA.

*Excursion in Charge of Sam H. Dixon—Three Hours' Conference
with Luther Burbank—California Orchards, Market
Centers and Canning and Drying Establish-
ments Visited—Texas and California
Interests do not Materially Conflict.*

We are indebted to John S. Kerr, Sherman, Tex., for the following account of a tour of California's horticultural centers by a party of Texas nurserymen:

On July 25th, through the courtesy of the Southern Pacific railroad, a party of Texas horticulturists left Houston, Texas, via El Paso and Yuma, to make a tour of the horticultural interests of California. Sam H. Dixon, industrial agent of the Southern Pacific & Houston and Texas Central railways, and also a heavy grower of peaches in East Texas, was in charge of the party. The personnel consisted of C. Falkner, orchardist, of Waco; E. W. Kirkpatrick, horticultural specialist and nurseryman of McKinney; Prof. F. W. Mally, orchardist and nurseryman of Garrison; Prof. E. J. Kyle, horticulturist of the Agricultural and Mechanical college, College, Texas; F. T. Ramsey, orchardist and nurseryman of Austin; John S. Kerr, orchardist and nurseryman of Sherman; Mrs. Sam H. Dixon, son Stoddard, and Mrs. John S. Kerr.

Riverside, Redlands, Los Angeles, San Jose, Fresno, Haywards, Oakland, Vacaville, Santa Rosa and other fruit centers were visited. The party had the pleasure of a three hours' conference with Luther Burbank, of Santa Rosa, which proved very interesting indeed. The trip throughout was one of great interest and benefit to the party.

Many other places of interest were visited, such as Leland Stanford University, California State University, where we had the great pleasure of interviewing Professors Wickson and Hilgard, and other noted places.

The fruit markets of San Francisco, Los Angeles and other market centers were inspected, as were also the canning and drying establishments. The magnitude of the fruit and seed industries of California are astounding. It would take volumes to tell of the amount of the orchards, the variety of handled, of the canning, the drying, and the marketing in the green state, and of the great fields of seeds, melons, cucumbers, pie-plant and other truck-farming crops. The party feel that they have gained much valuable information that will be of service in the handling of Texas products.

It is the general consensus of opinion that California and Texas do not materially conflict in their fruit interests for the Northern markets, the principal crops of California being apricots, prunes, oranges, lemons, English walnuts and other crops which are not grown to any extent in Texas. The peach and plum crops of California are not as important as the others mentioned above. The peach and plum crops of Texas are the principal ones for the Northern markets, and in these crops Texas has an advantage over California of two to three weeks in time of ripening, two thousand miles advantage in nearness to market, with a forty-five to forty-nine cent rate against a dollar and twenty-five cent rate, and a time of three to six days as against seven to fourteen days. Therefore, Texas can safely push the peach and plum business to the extreme limit. It would take too much space to give definite figures as to the acreage, tonnage and other definite data.

Our horticultural party feel the keenest gratitude and appreciation for the many courtesies extended by the management of the Southern Pacific system, especially Messrs. S. F. B. Moore, William Doherty and Sam H. Dixon, of Houston, and the agents and operatives of the lines whose courteous attention we were fortunate to receive throughout the trip.

A RAILROAD NURSERY.

Announcement is made that the Pennsylvania Railroad Company has begun building at South Elizabeth, N. J., a large system of hothouses and conservatories for the growth and nursing of shrubbery, trees, plants, flowers and exotics to be used principally in gardens at stations along the New York and Pittsburg division, as well as orchids and expensive flowers for the officers and for special occasions. The cost is estimated at nearly \$100,000.

HART PIONEER NURSERY LOSS.

Fire destroyed the packing house of the Hart Pioneer Nurseries at Fort Scott, Kan., Aug. 8th. The building was 60x70 feet in dimensions, with an L 35x32, and a packing shed. Many of the records and papers of the company were destroyed. Manager A. B. Combs estimates the loss at \$3,500. There was an insurance of \$1,500 on the building and \$1,000 on contents. The company's books were in a safe. Arrangements have been made for building a much larger packing house in time for the fall packing.

SHORT ROOT PRUNING.

Regarding short root pruning Professor H. E. Van Deman says in the Southern Fruit Grower: "The greatest vitality is near the collar of a young tree or plant. The recuperative power seems to be stronger there than further out on the roots. Now, if the soil is such as to favor growth, that is, sufficiently porous for the water and air to permeate it sufficiently, rich in plant food, and the temperature right for plant growth, the short pruning of the roots is better than very long pruning, or than none at all except what was done in digging in the nursery. The young roots will come out stronger and grow with more vigor than they will if they have to start from the minor roots. Short root pruning forces the growth to begin at the strongest place for it. But, in unfavorable soils and climates, that is, where the soil is stiff and the springs cool and unimpulsive, the short root pruning plan is not good.

"I know that there are those who recommend stub-root pruning universally, and with almost no qualifications, but this is a mistake according to my observation and experience. The conditions that favor or suit the short root pruning are far more commonly found in the Southern States than in the Northern regions. The land is generally light and friable and the springs warm and invigorating. The autumns are also long and warm and the conditions right for inducing root growth before the spring season comes on.

"The cutting back of the tops to shorten the evaporating surface is another matter that must not be forgotten, when a tree or plant is transplanted. If the roots are cut to stubs, as may sometimes be a good plan, the tops must be treated in the same way."

WASHINGTON'S LAW

Criticised By Western Publication—License Fee Prevents Establishment of Nurseries There—Nurserymen's Bond Increased from \$1,000 to \$2,000—Statement that Nurserymen Outside of State May Profit By Legislative Provisions.

Leading fruit growers are criticising the horticultural law passed by the last legislature of Washington, says the Northwest Horticulturalist. The compensation of county inspectors was raised from \$2.50 to \$4 per day and in that particular no fault is found, for the remuneration under the old law was too low. The present law caused the terms of all county inspectors and of nursery licenses issued to expire on March 16 of this year, while it legislated the present state commissioner, without reference as to his qualifications, into office for two years. County inspectors in order to have their selection by local societies confirmed were compelled to travel, some of them, across the state to Tacoma to pass an examination.

Continuing, the Northwest Horticulturalist says :

No particular department of horticulture in the state of Washington is in greater need of promotion than the nursery business. Thousands of dollars are sent out of the state annually for nursery stock. Yet any who now engage in this line must pay a tax of \$5 for license and \$2.50 for every authenticated agent. Small nurseries located in different parts of the state accessible to growers, where scions can be readily obtained from trees of known productiveness, are desired, but not many of these are now apt to be started. The former bond was \$1,000, which at present is \$2,000, another obstacle to the nurserymen of small area who do not find it pleasant to bother their neighbors for security. The bond being merely formal for the purpose of keeping track of shipments, one of \$500 would answer the purpose as well as one four times as great, for other sections of the law give the inspectors ample power to seize and burn infected stock, their only complaint being that they could not cover the ground, which is now remedied by additional deputies when required. The large outside nurseries which in the past have been shipping the infected stock consider the required payments and bond a good advertisement, hence that part of the measure is not looked upon by them with disfavor, while our leading horticulturalists do not think it will serve the best interests of the state.

A LESSON IN SMALL FRUITS.

A writer in the Country Gentlemen thus describes the extent of the berry-growing industries of the South, under date of Norfolk, Va., May 9th :

The berry picker is abroad in the land, the season now in full swing; trucking section fairly alive with the 1,500 or more pickers. The city has sent out into the berry fields every spare man, woman and child; and the adjacent counties have been drawn upon to raise an army to promptly handle the great crop now in sight. I recently visited the farm of one of our berry growers with a photographer, to secure views for the St. Louis Exposition. Reaching the farm at eight o'clock A. M., we found fully 400 sons and daughters of Ham awaiting the order to begin picking. The berry patch, or field, contained a hundred acres—a square field, with wagon road through it both ways, cutting

it into four square fields of twenty-five acres each; packing sheds in center, at crossing of the two roads. Here the 400 hands were gathered, buzzing and humming like a swarm of bees. As soon as the morning sun had drunk up the dew, the pickers, under four overseers, were marched in solid column to the west side of the field, and each given a row of berries to pick. Then, at the signal, picking began. There was a blending of shades and color agreeable to the eye—the golden sunshine, the blue sky, the red berries, the white baskets, the green foliage, and the black pickers. They gather 10 000 to 12,000 quarts per day, which are selling on the great eastern and northern markets at 12 to 15 cents per quart. The pickers get two cents per quart, and make from fifty cents to two dollars per day. The colored laborer fits nicely into his work. He likes to work in "blocks of five," or 50 or 500. More than \$1,000 per day is paid out to the pickers here. This money is promptly spent—passing at once into the hands of retailers; thence to jobber and manufacturer; thence to bank in New York and other financial centers. In less than thirty days this money come back here in payment for the next crop—say potatoes. Therefore the "trucking dollar," as we may term it, makes at least ten round trips per year. It is not so with the western wheat or corn dollar, or the beef or pork dollar, which makes only one. The truck dollar of southeastern Virginia, is a nimble nickle of commerce. A dollar spent ten times is as good as ten dollars spent once. Therefore the Southern dollar does more good than a western. Southern capital is turned oftener—especially that portion invested in the fruit and trucking industry.

E. W. CHATTIN.



E. W. CHATTIN.

Secretary-Treas. Southern Nursery Co.

E. W. Chattin was born Sept. 10th, 1868, in East Tennessee. His early life was spent on a farm, he receiving such education as country schools afforded. At the age of nineteen he engaged with the Southern Nursery Co. as traveling salesman, remaining in their employ three years, after which he entered into the mercantile business at Winchester, and is now the president of the Talley & Chattin Mercantile Co. On August 1st, 1902, he was elected secretary and treasurer of the Southern Nursery Co., which position he now holds.

NOW IT'S A VEGETABLE PEACH.

That the United States government is not to have a monopoly of the sending out of novelties to be tested is shown by the advertisement of a Hyde Park, N. Y., man in the Central Farmer. This man announces a "Vegetable Peach Novelty," which, he says, is one of the good new things for your garden. He says: "Ripens in eighty days from the seed, similar to peaches, rich, delicious flavor. Tested in every state; receives unbounded praise. A wonderful new fruit. Grows on vines like melons, size of oranges, golden color, very handsome. Great curiosity, easily grown. You will miss a good thing if you do not grow this valuable new fruit." The introducer will send a packet of selected seed with catalogue for one dime and will give a Grand Novelty for wife or daughter free with orders for peaches.

The advertiser does not claim to be a nurseryman. He styles himself a seedsman.

VALUE OF PUBLICITY.

"The more horticultural information we can circulate the larger and better will be our business."—J. H. Hale.

The National Nurseryman.

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Payment in advance required for foreign advertisements. Drafts on New York or postal orders, instead of checks, are requested.

Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., SEPTEMBER, 1903.

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Committee on Exhibits—R. C. Berckmans, Augusta, Ga.; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester.
Committee on Cost of Growing Trees—Wilson J. Peters, Troy, O.; W. F. Heikes, Huntsville, Ala.; Theodore Smith, Geneva, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.
NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.
EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, A. L. Brooke, N. Topeka, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.
SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Cha-e, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.
SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.
PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Organized at Portland, Ore., January, 1903.

PROMISING NEW FRUITS.

The attention of nurserymen was directed to the subject of novelties by Prof. Bailey at the Detroit convention. His views, we think, are those that are generally held by nurserymen. Practically the same sentiments are expressed by Prof. Bailey in the July issue of Country Life in America, and the subject is discussed also by William A. Taylor, pomologist, in the yearbook of the Department of Agriculture. Mr. Taylor says that such fruits should receive attention as have attracted notice through inherit merit, rather than through lavish praise by originators or introducers. He proceeds to describe a few fruits of this character that have recently reached the office of the pomologist. The list includes Stayman Winesap Apple, Randolph Apple, Philopena Pear, Belle Peach, Willett Peach, Brittlewood and Stoddard Plums and the Jordan Almond.

HORTICULTURE IN THE WEST.

The reclamation of arid lands in the West is of special interest to nurserymen, in that the marked progress indicates rapidly increasing demand for material for planting. In conversation with a nurserymen from Colorado recently, a representative of the NATIONAL NURSERYMAN expressed surprise at the results attained in horticulture in the West notwithstanding the disadvantage of having to irrigate. "We consider it a decided advantage," promptly replied the visitor, "for by means of irrigation we have always at hand the needed moisture to be used just when wanted. This makes us independent of the clouds and we do not have to wish for rain. Our crops are not set back by periods of drouth." This is a good argument if the cost does not exceed the gain.

The chief statistician of the Census Bureau last month submitted a report on the status of irrigation in the State of Washington by which it is shown that there has been considerable increase in irrigation in that state since 1899. There are now 4,585 irrigators, irrigating 154,962 acres and the cost of operating in 1902 was \$2,330,758. There is a total of 1095, miles of main ditches in the state.

AMERICAN POMOLOGICAL SOCIETY.

The twenty-eighth biennial session of the American Pomological Society will be held September 10th to 12th in Boston. Removed from the distracting influences of a world's exposition and amid surroundings the most favorable, with a program prepared with much care, this session of the society ought to be one of the most profitable in the history of the organization.

A novel feature of the meeting will be the devotion of two evening sessions to the comprehensive discussion of single subjects that are of widespread interest and importance. One of these will be devoted to a discussion of "Pomological Progress in America," under the leadership of Prof. John Craig, of Ithaca, N. Y., in which particular attention will be paid to the achievements of American pomologists during the past half century. The other will relate to the general subject of "Ideals in Pomology," under direction of former Secretary Chas. W. Garfield, of Grand Rapids, Mich., who will be aided by many of the men who are striving to attain those ideals in the United States and Canada.

A nurseryman, C. L. Watrous, is president of the society.

The topics to be discussed are of direct interest to nurserymen.

In connection with this meeting, Professor S. A. Beach, Geneva, N. Y., announces that it has been decided to organize the Society for Horticultural Science, referred to in these columns. Professor L. H. Bailey will preside at the Boston meeting, September 9th, at 2 p. m. It is hoped that as many as can will attend this organization meeting.

GEORGIA HORTICULTURISTS.

President P. J. Berckmans presided at the 27th annual meeting of the Georgia Horticultural Society, at Athens, Ga., Aug. 3d. Mr. Berckmans has been at the head of this society since its organization. Dr. N. L. Willet, of Augusta, presented a paper on "The Georgia Seed Growing Industry as a Side-line to Horticulture." There was discussion of nut culture, the Georgia fig, irrigation and cold storage. A large increase in the number of peach orchards in Georgia in the next few years is looked for. These officers were elected: President, P. J. Berckmans, Augusta; secretary, W. M. Scott, Atlanta; treasurer, L. A. Berckmans, Augusta.

SOCIETY OF AMERICAN FLORISTS.

The nineteenth annual meeting of the Society of American Florists was held at Milwaukee August 18-21. It was largely attended. President Burton in his address discussed the importance of attendance at the sessions of the convention. This is a subject of importance to nurserymen also. A discussion by the executive committee resulted at Milwaukee in the appointment of a sergeant-at-arms, who, with his assistants, is required to see that all members who can do so be induced to attend the meetings and postpone the discussion of personal or business matters to a more opportune time. "We mean," continued President Burton, "to make an earnest effort to do justice to the able gentlemen who have come so far and who have prepared themselves at great pains to address us. The executive committee wish it clearly understood that the rule as to having the exhibition hall cleared during sessions is to be strictly enforced; that it is no mere whim of the sergeant-at-arms, but an iron-clad rule that must be obeyed by all, by exhibitors as well as by visitors."

It was decided to give the peony committee power to add to its membership and proceed. The report of the committee on affiliated societies was referred to the board of directors.

Philip Breitmeyer, of Detroit, was elected president; William J. Stewart, secretary. The Society will meet next year in St. Louis. There were many exhibits, including those by P. J. Berckmans Co., Henry A. Dreer and Lord & Burnham.

PEACH GROWING IN LOUISIANA.

From many quarters come repeated reports of the rapid growth of fruit growing in the South. The Georgia peach orchards are already famous, Texas is coming rapidly to the front, and other states are showing marked increase in number and extent of orchards.

George F. Gallagher, of Rochester, N. Y., New York City and Louisiana, in conversation with a representative of the NATIONAL NURSERYMAN, said that a large amount of peach planting is contemplated in Northern Louisiana in the hilly

sections. Land that has been discarded for cotton growing, can with little or no building up be planted to advantage to peaches, for below the subsoil is a hardpan containing much iron which is of distinct advantage to high quality in the peach.

Nurserymen will have an opportunity next summer to view the remarkable extent to which peach growing has been advanced in the South, and in the time intervening before the convention of the American Association at Atlanta the fruit growing interests of the South will attract more than usual attention, as they will also thereafter.

Improved transportation facilities, successful methods of combatting the attacks of the curculio and monilia, and the originating of the Elberta peach by Samuel H. Rumph of Marshallville, Ga., are the causes of development of the commercial peach industry of the South which has extended from Georgia to South Carolina, Alabama, Mississippi, Arkansas and Texas, and recently to Louisiana.

APPLE SHIPPERS' CONVENTION.

At the ninth annual meeting of the International Apple Shippers' Association, at Niagara Falls, August 5-6, with an attendance of 200 of the membership of 256, representing all the commercial apple sections of the United States and Canada, except the Pacific coast, the following estimate of the apple crop was given out: For Ontario and Nova Scotia, 13,300,000 barrels; for the United States, 48,614,000 barrels; total 61,914,000 barrels. The figures for last year were as follows: Ontario and Nova Scotia, 16,120,000; United States, 47,625,000; total 63,745,000 barrels.

Prof. M. B. Waite of the U. S. Department of Agriculture, discussing legislation for control of orchard diseases, said:

Among insect diseases the San Jose scale is the greatest problem, although recent developments of the use of the lime-sulphur-salt spray appear to have effectively settled the whole question. Laws against plant diseases require marked distinction between the orchardist and the nurserymen. The latter should be subject to more stringent regulations, as diseases in nurseries are apt to be given widespread distribution.

ONE OF the breeziest and best of "travel letters" is the Epistle to the Texans, written in the eighth month A. D. 1903, by Ramsey, F. T., and distributed among the multitude by Farm and Ranch. In it are detailed the observations of the author in a strange land, when he went out from the state that has long known him, to mingle with the tribes of the North in the city that was founded by Cadillac, in the sixth month, and to wander thereafter for a time in the realm of the king, and then to witness strange scenes along the Allegheny, all to the great delight of his own and his wife's cousins and aunts. In due time he was returned to his own duly tagged and ticketed, and he rejoiced and was exceeding glad and at once fell to thanking the Lord that he was not as other men who could not abide in Texas. And straightway he went out and marveled at the greatness and exceeding brilliancy of the Lone Star. May his tribe increase.

W. T. GOUGH, Abilene, Kan.—"Enclosed find \$1 for NATIONAL NURSERYMAN. We feel we cannot do without it."

THOMAS E. BURROUGHS, New London, Conn. "We must have the NATIONAL NURSERYMAN. It is an up-to-date publication and just what every up-to-date man needs in his business. Enclosed find \$1."

WESTERN ASSOCIATION

Semi-Annual Meeting—Belief that Prices on Apples for 1903-4 will Continue Firm—Shortage of 75 per cent. on Apple Seedlings and Present Advance of 400 per cent.—Peach Plantings Reduced, Quantity Curtailed—No Surplus Peach in 1904—A New Member.

The Western Association of Wholesale Nurserymen met in semi-annual meeting, July 8, 1903, at Centropolis Hotel, Kansas City, Missouri, seventeen firms being present. Messrs. Welch and Howard wired they were en-route, but were delayed by railroad wreck. Minutes of previous meeting read and approved. Report of treasurer showed the receipts to be \$117.77, expenses \$31.78, leaving balance in treasury of \$85.99. Report adopted.

Application of J. A. Lopeman, Enid, Ok., for membership was received and he was duly elected. Communications were read, after which adjournment for luncheon was taken.

At the afternoon session the Alabama Nursery Co. and Stark Bros. sent in communications regretting their absence and wishing a good meeting.

The loss in the flooded district was estimated to be 15 to 20 per cent. on 2-year-old stock, 75 to 80 per cent. on apple seedlings and quite heavy on the various cuttings stock.

Much interest in the program was manifested. J. H. Skinner discussed "Effect of the flood on prices of apples for the years 1903-4." Consensus of opinion was that prices would continue firm. Peter Youngers: "Effect of flood on supply and prices of apple seedlings." A shortage of 75 per cent. and a present advance of 3 to 400 per cent. in price answers the question. R. J. Bagby: "Outlook for peach for the year 1904," said as seed was not plentiful the past year, plantings were reduced by many growers, thus curtailing the quantity. Indications of a continued strong southern demand, he thought, would cause a large amount of seedlings to be used for June buds and hence reasoned that there would be no surplus peaches in 1904.

The day was consumed and many felt that it was too short a time in which to transact all of need or profit to the Association.

Adjourned to meet at same place, December 15, 1903.

NEW YORK INSPECTION.

The report of the Commissioner of Agriculture of New York State, for the year 1902 contains the following:

The nurserymen of the state have shown their appreciation of the work of the inspectors by constantly calling them to their assistance for extra and special inspections of their stock. Our statistics do not show the number of cases where examinations of scions, bud sticks, new varieties and suspicious consignments are scrutinized, or the many reinspections of nurseries deemed necessary. Attention is called to what is required of the nurserymen in cases of infestation of woolly aphis, phylloxera of the grape and crown gall; as these troubles show mostly after the trees are dug, a season when an expert may not be present, many nurserymen must be taught the importance of rejecting all diseased trees and plants. On the promise of the nurseryman to do so, certi-

icates are issued if the summer inspection shows slight signs of these diseases. If, however, the infestation or infection is severe, whole blocks are condemned and an inspector is sent to see to shipments at digging time.

The following is an estimate of the various number of trees growing in New York nurseries for the year 1902, as reported by the agents from information obtained at time of inspection; also the same information in the table that follows relative to to the years 1900-1901, from a comparison of which a fair idea may be drawn as to the trend of this business:

	1900	1901	1902
Acres in nursery.....	6,006 1/2	7,156 3/4	7,844
Apple trees.....	8,830,217	10,258,166	12,073,305
Pear trees.....	4,755,133	6,162,537	6,004,170
Dwarf pear trees.....		439,716	2,086,320
Plum trees.....	4,495,122	5,651,289	5,637,335
Cherry trees.....	3,955,892	5,532,815	7,253,220
Peach trees.....	2,823,363	3,473,297	5,982,445
Quince trees.....	718,565	587,966	571,035
Apricot trees.....	77,016	56,871	68,705
Total fruit trees.....	25,655,308	22,162,607	39,676,345
Ornamental trees.....	3,521,606	2,163,670	5,255,960
Shrubs.....	4,815,868	5,488,076	6,143,635
Currants.....	4,815,868	3,438,834	3,123,265
Grapevines.....	11,795,139	21,433,966	23,892,105
Gooseberries.....	80,188	626,710	923,930
Acres raspberries.....	234	214	237
Acres blackberries.....	80	111	90
Acres strawberries.....	138	150	135
Acres vineyards.....	896	294	515
Fumigatories in State..		23	66

The following shipments were inspected in the years 1901 and 1902:

	1901.	1902.
Carloads.....	36	120
Boxes.....	376	1,997
Bales.....	83	614
Fruit trees.....	290,038	1,555,861
Fruit seedlings.....		4,080,400
Ornamental trees.....	74,076	93,820
Ornamental seedlings.....	478,000	165,500
Shrubs.....	132,944	852,926
Currants.....	44,915	19,040
Gooseberries.....	3,690	56,515
Berries.....	19,275	137,276
Vines.....		19,500

In the above shipments 5,818 trees were found infested with San Jose scale, 16,630 with woolly aphis and 5,000 with crown gall, all of which were destroyed.

Close attention has been given to the provision of the law requiring nursery stock, "grown in any nursery in this state in which San Jose scale has been found within two years of the date of the dissemination of said nursery stock, or grown in said nursery within one-half mile of where said scale was found, and also all nursery stock from outside the state, disseminated or planted in the state, must be fumigated with hydrocyanic gas." Under the rule a nurseryman must fumigate all stock grown within a half mile limit, even though no scale was ever found on his premises. Many nurserymen fumigate everything they ship to their customers or plant themselves.

The efficiency of proper fumigation for the destruction of San Jose scale on nursery stock is fully established, and those who fumigate in suitable buildings of convenient form of construction for the amount of stock they handle, do not find the cost an excessive burden.

From Various Points.

One hundred thousand fruit trees have just been planted in Elberta county, Georgia.

Total shipments of fruit, mostly peaches, from Georgia, up to August 1st amounted to 857 carloads.

The total yield of peaches and plums in Michigan territory this season is placed at a little more than 3,000 cars.

Eighteen hundred acres in Cullman county, Ala., owned by Emil Airichs are to be planted to Loblolly Pine, Chestnut and Oak.

The park department of Pittsburg, Pa., is asking for bids for about 5,000 trees and 2,000 young shrubs to be planted in the nursery.

The bureau of forestry, U. S. Dept. of Agriculture, has planted 850 pounds of *Pinus ponderosa* seed at the station near Halsey, Neb.

The Cook County, Ill., Park Commissioners are taking steps to construct an outer belt of parks 120 miles long in the county outside of Chicago limits.

George L. Clothier, acting chief of the U. S. Division of Forestry, suggests that large areas of land injured by the floods in Kansas could be profitably planted to forest trees.

The new plan for an interim examination, by American Pomological Society committees, of new fruits entered in competition for the Wilder medal is arousing active interest.

San Francisco park commissioners recently gave away in one day to 3,000 persons 35,000 rooted cuttings from the Golden Gate park nursery, in preference to destroying them.

Charles H. Vick, commissioner for New York State for the St. Louis Exposition, urges fruit growers to place in cold storage this fall fruits for the Exposition which is to open next May.

The Pine Mountain Fruit Co., President J. J. Stranahan, Bullochville, Ga., has purchased 1,000 acres of land at Nebula, Meriwether county, Georgia, and will plant this year 13,000 Snead and Elberta peach trees.

The Peninsula and the Maryland state horticultural societies held a joint field meeting at the large farms of W. F. Allen, at Salisbury, Md., August 6. The meeting was attended by over 100 members of the two societies.

A Vermont man says: "It is wrong to plant Ben Davis in New England." This emphasizes the western claim that the proper home of the Ben Davis is the land of the Ozarks—Southern Missouri and Northern Arkansas.

Ex-Governor Alva Adams, of Colorado, argues that the apple should be the symbol of the clothing business the world over; for if Eve had not tasted of the apple and divided with Adam there would have been no need for clothing.

Franklin Sherman Jr., Raleigh, N. C., entomologist of North Carolina, has issued a circular descriptive of the rules relating to the sending of nursery stock into that state. He will send a copy to any nurseryman upon application.

September events are as follows: American Association of Cemetery Superintendents, at Rochester, N. Y., Sept. 8, 9, 10; American Pomological Society, at Boston, Sept. 10, 12; National Farmers' Congress, at Niagara Falls, Sept. 22.

Government crop report on apples, Aug. 1st: New York, .59; Virginia, .76; Arkansas, .43; Ohio, .48; Michigan, .66; Indiana, .42; Illinois, .46; Missouri, .36; California, .82; Oregon, .87; Wisconsin, .58; Minnesota, .82; Maryland, .77.

One hundred crates of Elberta peaches were shipped from Marietta, Ga., to London during the first week in August by W. B. Turner, as an experiment. State Entomologist Scott superintended the packing. New York market prices were guaranteed.

Germany has declared that apples will not be admitted to that country except in bulk. This will let in apples from France, Holland, Denmark and other nearby countries, but it practically excludes those from the United States. U. S. Pomologist Taylor is investigating the subject.

Tobacco, an ocean of it, bearing a ship constructed wholly of the chewing weed, perched high on a massive globe, also built of tobacco, on the top of a pagoda formed of tobacco, is intended to be the crowning feature of the universal tobacco exhibit at the Louisiana Purchase Exposition.

Sir Thomas Lipton, tea merchant and yachtsman, has purchased an immense tract of land near Brunswick, Georgia. He proposes to raise fruit and vegetables for the London market. The scope of his operations will include a line of cold storage steamers to carry his produce from Georgia parts to the markets of England.

The largest tree in Oregon was felled recently to be sent as a curiosity to the World's Fair. It is the Aberdeen spruce, and stood nearly 300 feet high, 40 feet around and 118 feet from the ground to the first limb. Its age is calculated at 440 years, being a good sized tree when Columbus discovered the land that was afterward called America.

The latest variety of Rose to gain the gold medal of the National Rose Society of England is the single-flowered garden rose Blush Rambler which bears a profusion of soft blush-pink flowers each with a small cluster of yellow stamens. Blush Rambler is a result of crossing Crimson Rambler with Garland, by Benjamin Cant & Sons, Colchester, Eng.

The Florists' Hall Association reported at its annual meeting in Milwaukee an equivalent of 18,250,000 square feet of glass insured. Since the organization of the Association in June, 1887, 608 losses have been paid involving an expenditure of \$58,000. During the last year \$4,623 were paid for losses. The reserve fund consists of \$10,400, invested, and \$742.01 cash in hand, making the reserve fund on hand August 1, 1903, \$11,142.01.

At a conference of members of the New York State St. Louis Fair Commission in Albany last month, it was agreed to offer to all orchardists of the state the privilege of sending fruit of really superior quality in barrel lots to the show without expense, the commission furnishing padded barrels and paying freight; also to send experts to the county fairs this fall to select the best products and make up carloads of them for St. Louis.

Editorial representatives of American Agriculturist are visiting every portion of the Canadian northwest for the purpose of personally investigating the agricultural resources and capabilities of the vast territory north of our border. This district is the last large area of unoccupied farm land on the American continent north of the tropics, and barring Argentina, the last unoccupied wheat land on the western continent. The tide of American immigration is being turned toward this district.

The seedsmen, at their recent convention, again put themselves on record in opposition to the present government distribution of seeds. From every fair point of view the seedsmen are justified in fighting this abuse. For it is not only an abuse of a government function but an unfair attack upon reputable private business. Just now the seedsmen suffer, but how long will it be before men in other lines of trade or even farmers will find the government competing with them by giving away what they have to sell?—Rural New Yorker.

Obituary

Frederick L. Olmsted, the famous landscape architect, died Aug. 28th, at Waverly, Mass., aged 81.

William Fairchild Peters died in Philadelphia, August 2d. He was formerly in the nursery business in Wilmington, Del.

Mrs. Cornelia Ellwanger, wife of George Ellwanger, died at her home in Rochester, August 7th, in her 87th year. She was the daughter of General Michael Brooks, of Livingston county, N. Y., and was married to Mr. Ellwanger in 1846. She had four sons, two of whom, George H. and William D. Ellwanger, survive. Mrs. Ellwanger was prominent in church and charitable work, but shrank from publicity. Her husband, the venerable senior partner of the firm of Ellwanger & Barry, survives, in his 87th year.

E. R. GASTIN, Peru, Ind.—"I enclose \$1 for the journal. Glad to have you remind me of this as I do not want to be without it."

Long and Short.

For Peach pits write John S. Kerr, Sherman, Tex.

New peach seed may be obtained of H. S. Day, Fremont, O.

Peach pits can be had of Fancher Creek Nurseries, Fresno, Cal.

C. W. Stewart & Co., Newark, N. Y., want an assistant foreman.

Orange Quince and Bartlett Pears at John Twomey's, Geneva, N. Y.

Houghton Gooseberries are wanted by J. S. Linthicum, Wellham, Md.

Bartlett Pears, standard 2-year, are offered by B. F. Kean, Stanley, N. Y.

The Laketon Nurseries, Laketon, Ind., have a surplus of Apple $\frac{3}{4}$ and $\frac{1}{2}$ and up.

Lord & Burnham are building a new greenhouse for R. G. Hanford, Norwalk, Conn.

Poplars, Norway Maples, Silver Maples, Osage Orange at Josiah A. Roberts', Malvern, Pa.

Elberta and other Peaches in very large lots are offered by Ortiz Fruit Farm, Mexico, Mo.

Nuts and Peaches of all kinds are offered by American Plant and Seed Co., Nashville, Tenn.

California seedling and grafted peach pits are offered in carload lots by George F. Ditzler, Biggs, Cal.

The Village Nurseries, Harnedsville, Pa., call attention in another column to some of their trade winners.

The Enid Nurseries, Enid, Okla., carry a full line of nursery stock. Specialties: Apple, Peach, Plum, Grape.

A fine block of Apple, 2 years, is offered by H. M. Simpson & Sons, Vincennes, Ind. Also a complete line of nursery stock.

Victor Détriché, Angers, France, growers of fine nursery stocks, are represented in the United States and Canada by Charles F. Meyer, 19 Barclay street, New York.

An immense stock of Norway and Sugar Maples, Oriental Planes, Pin Oaks and Park and Cemetery ornamentals is offered by Hoopes Bro. & Thomas, West Chester, Pa.

Grape vines, all old and new varieties of highest quality, including Campbell's Early; also Currants, Gooseberries and Blackberry root cutting plants may be had of T. S. Hubbard Co., Fredonia, N. Y.

FALL OF 1903

SPRING OF 1904

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Hydrangeas—Both Tree and Shrub form.

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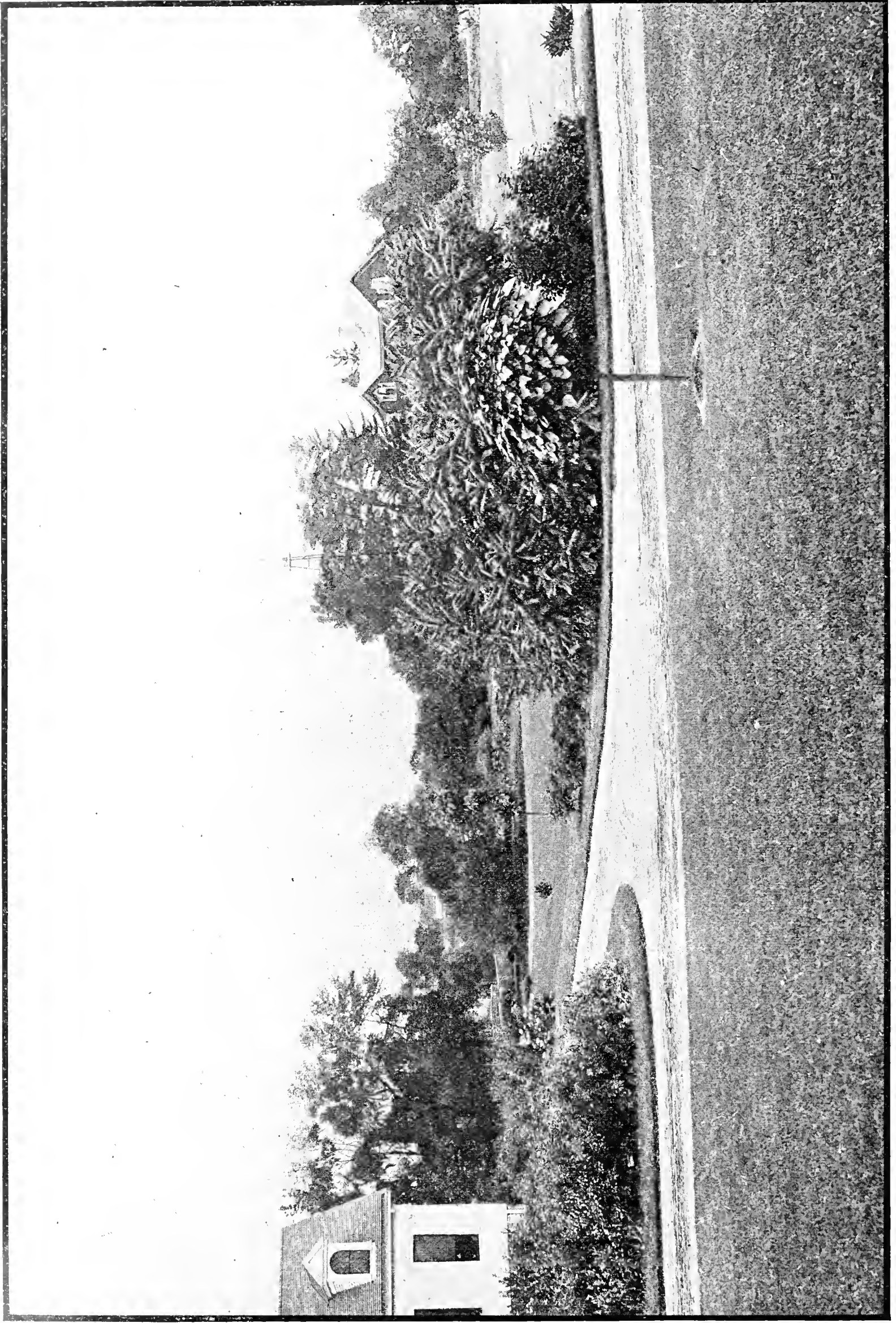
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FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"The more we know of the way a plant lives, the greater will be our success practically."—GARDENERS' CHRONICLE.

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No. 10.

AMERICAN POMOLOGICAL

Twenty-eighth Biennial Meeting—New Fruits Recommended for Trial — Suggestions on Packing — J. H. Hale Elected President — John Craig, Secretary.

The twenty-eighth biennial convention of the American Pomological Society was held in Boston, Sept. 10-12. This Society has an honorable and interesting record. It is the organization around which centered the interests of Wilder, Berckmans, Watrous and other noted leaders in pomological research. Only four of the founders are living: George Ellwanger, S. B. Parsons, Peter B. Mead and Henry Wood.

President C. L. Watrous, Des Moines, Ia., presided at the Boston meeting. One of the chief features of the session was the report of the ad interim committee on examination of new fruits. Among the attractive novelties reported were: Hiley Peach, introduced by R. A. Hiley, Fort Valley, Ga.; Perfection Currant, by C. G. Hooker, Rochester, N. Y.; Headlight Grape, by T. V. Munson & Sons, Texas; Advance Loquat, by C. P. Taft, Orange, Cal. The cross-bud pear, Anjou and Josephine di Malines, by John Charlton & Sons, Rochester, N. Y., was recommended for trial. Ellwanger & Barry, Rochester, N. Y., received a silver Wilder medal for an exhibit of 300 plates of pears, apples and grapes. Wyman Elliott, of Minneapolis, Minn., showed 132 distinct seedling varieties of apple, the result of one year's seed from a single tree of Melinda. The pollen parents are given as Wealthy, Duchess, Perry Russett and Haas. The seeds were planted ten years ago and there are a few trees yet to fruit. It was an interesting demonstration of how the seedlings of one tree will vary, almost every type of apple being represented in the product.

J. H. Hale, discussing grading and packing fruit said that fruit for long distance shipment should be grown for that purpose, on high, well-drained land, a liberal application of potash giving carrying quality. He ventured the opinion that fruit well-matured on the tree, if rightly handled, will keep better, look better and sell better than fruit picked half-ripe. A peach, for instance, if allowed to stay on the tree till just ready to ripen; picked into a stiff basket where crushing will not ensue; carefully graded by hand and sent to market in a strong, rigid package, will keep long and will sell above the market anywhere in America. Mr. Hale also advocated the use of paper wrappings in packing fruit. Though it costs more to pack in this fashion, the fruit sells from ten to twenty-five per cent higher than the market price. In all improvements of this kind, the speaker pointed out, the consumer pays the price.

Space does not permit extended reference to the papers presented. Secretary Taylor made an interesting report on nomenclature. Prof. Bailey discussed "Schools in Country Life;" G. H. Powell, "Cold Storage;" Dr. C. L. Marlatt, "San Jose Scale."

Officers elected are: President, J. H. Hale, South Glastonbury, Conn.; first vice-president, Charles W. Garfield, Grand Rapids, Mich.; secretary, John Craig, Ithaca, N. Y.; treasurer, L. R. Taft, Agricultural College, Michigan, and a vice-president for each state and province. C. L. Watrous is chairman of the executive committee.

The Society may meet next year in St. Louis, though its regular meetings are held biennially.

CLOSE FRUIT CONTEST.

Regarding the fruit exhibit at the New York State fair the Country Gentleman says:

The competition between the New York State Fruit Growers' Association and the Western New York Horticultural Society, while entirely friendly and good natured, was sharp in the extreme. For the first time in the history of these competitions, the result was altogether in doubt up to the last moment. The two exhibits were very closely watched in all respects, the Fruit Growers having the advantage in quantity, and the Western New York Society an apparent advantage in quality. The judge was Prof F. A. Waugh of Massachusetts, who devoted the greater part of two days to the award of this one prize. For the first time in the history of the fair, the fruit was judged by the score card, and this feature proved very satisfactory to every one interested in the exhibits. The competition was so close that the result was finally decided by a margin of less than one per cent., the Fruit Growers' exhibit scoring 92.65 points and the Western New York Society's exhibit scoring 91.68. In several sections, particularly pears, peaches and plums, the latter society greatly outscored the former. The effect of this year's experience will probably be to call out an even better show next year, with the chance of even closer competition. The New York State Fruit Growers showed 3284 plates—216 varieties of apples, 113 of grapes, 72 of plums, 18 of peaches and 7 of quinces. The Western New York Society showed 2296 plates—216 varieties of apples, 157 of pears, 26 of peaches, 10 of crab-apples, 50 of plums, 5 of quinces and 19 of grapes. The magnificent show of the New York Experiment Station contained in all 956 varieties—359 of apples, 202 of plums, 179 of peaches, 8 of quinces and 100 of pears.

In the general exhibit there were 4712 plates—2342 apples, 17 quinces, 642 pears, 730 grapes and 15 clusters of exotic grapes, 247 peaches and 689 plums. The quality of most of this fruit was unusually good, and it made altogether as smooth a lot as one often sees. In the professional class, Messrs. Ellwanger & Barry won first on all four classes of apples, and William Palmer of Grooms second. In both classes of pears (not less than 20, and 10 varieties), the same order was maintained. On collections of 10 and 5 varieties of peaches the American Nursery Co. won first, with no second. On plums, not less than 20 varieties, S. D. Willard won first with a fine collection of 70 varieties; Ellwanger & Barry second with 62; Mr. Palmer third with 20. On 10 varieties there were the same winners in the same order. On 5, Ellwanger & Barry won first, Willard second, Palmer third. On grapes, not less than 15, and on 10 varieties, Ellwanger & Barry first, Palmer second.

The Minnesota legislature enacted as an amendment to a previous law a provision giving a bounty of \$2.50 per acre per year for a period of six years for each acre planted and kept in good condition with any kind of forest tree except black locust. This is limited to ten acres to any one person.

SOUTHERN ASSOCIATION.

*Largest Attendance and Most Enjoyable Meeting in Its History—
Papers Read by W. T. Hood, John A. Young and
Charles Smith—Addresses and Election.*

The fifth annual meeting of the Southern Nurserymen's Association was held at Winchester, Tenn., August 19, 1903. The convention was called to order at 10 o'clock by the president, J. C. Miller of Rome, Ga. This was one of the most successful meetings the association has ever had. There were about seventy delegates from the southern states in attendance, as well as visiting nurserymen from Iowa and Illinois. The attendance at this meeting was by far the best the association has ever had.

The nurserymen at Winchester had advertised free entertainment to all the delegates, and the 20th, after the meeting had adjourned on the night of the 19th, was set apart as the day for the nurserymen to visit the nursery plants around Winchester where they had the opportunity to see at least 20,000,000 trees of all kinds growing in the various nurseries.

A free excursion to the delegates was given by the nurserymen at Huntsville, Ala., leaving Winchester on the morning of the 21st, by special train, and reaching Huntsville at 9 a. m. Hacks, buggies and carriages were in waiting to convey the entire delegation out to the Huntsville Wholesale Nurseries, a distance of about twelve miles. There were about 80 people in this party. They reached the nursery plant at about 12 o'clock, where dinner was served on the nursery grounds in the shape of an old-fashioned southern barbecue. After dinner, the entire party was driven over the nursery plant of Mr. Heikes, consisting of about 1,000 acres. After this drive the nurserymen returned to Huntsville, where they were entertained free at the Huntsville Hotel. On the morning of 22nd, the entire delegation was driven out to the Alabama Nursery Co. plant, a distance of three miles from Huntsville. After looking over this immense plant, dinner was served to the delegates by the Chase Brothers. The party was returned to Huntsville at 1:40 p. m. where they boarded a special train for Winchester, reaching that point at 4 p. m.

The Huntsville trip was a great success and fully enjoyed by the entire delegation. This trip coupled with the free entertainment at Winchester, makes it one of the most enjoyable occasions in the history of the Southern Nurserymen's Association. It was no uncommon thing to hear the members remark that the convention was a greater success than any national convention they had ever attended.

The address of welcome was delivered by I. W. Crabtree, an attorney and nurseryman of Winchester, in behalf of the nurserymen and citizens of the town. N. W. Hale of Knoxville, Tenn., responded, after which the president delivered his address. Secretary and Treasurer J. C. Hale rendered his report, showing that \$139.20 had been added to last year's balance of \$69.17. The disbursements were \$19.56. This leaves a balance in the treasury of \$178.81. After this report was adopted and a committee appointed by the president to audit same, the convention proceeded to regular business. A considerable portion of the morning and afternoon sessions was devoted to discussions of topics from the question box.

A fine talk was made by Prof. Charles A. Keffer of the University of Knoxville, Tenn. An address was also delivered by Prof. George W. Martin, of Vanderbilt University, who is the state entomologist of Tennessee. He talked along the line of the nurseryman as the factor to suppress the spread of diseases and noxious insect pests and he gave some very valuable advice to nurserymen. He put particular stress on the fact that nurserymen should keep their premises clean and that all old trees should be cut down on them, and above all that scion orchards should be looked after as carefully as the nursery plant itself.

Papers were read by W. T. Hood of Richmond, Va., John A. Young of Greensboro, N. C., and Charles Smith of Concord, Ga.

The following officers were elected for the ensuing year: President, W. T. Hood; Vice-President, Henry Chase; Secretary and Treasurer, J. C. Hale. Asheville, N. C., was selected as the next place of meeting on August 24, 1904.

Foreign Notes of Interest

The importation of grapevines, graftings, etc., into Hungary has been prohibited.

The apple crop in Great Britain will be practically a failure. There should be a lively demand for American apples there this year.

It has been estimated that irrespective of those in parks and squares, Paris has not less than 86,012 trees in its streets and boulevards.

Since the withdrawal in England of the bill providing for the inspection and compulsory disinfection, if need be, of nursery stock, the President of the Board of Agriculture has promised an official inquiry into the nature of orchard pests.

Thomas Humphreys who was connected with James Dickson & Sons' Newton Nurseries, England, for five years, and afterwards had charge of the propagating department of the Royal Gardens at Kew, has been appointed curator of the Birmingham, Eng., Botanic Gardens.

The value of the nursery stock exported from the United States during the year ended June 30, 1902, was \$132,027. The largest recipients were Canada, United Kingdom, Cuba, Mexico, Germany, the Netherlands, Bermuda, British Australasia, Denmark and South Africa.

The Logan Berry and the Mahdi, the former more like a raspberry and the latter more like a blackberry, both being crosses of the blackberry and the raspberry, have received awards from the Royal Horticultural Society, England. G. Whythes says: "It is a splendid addition to our hardy fruits." The Logan Berry is the product of Luther Burbank; the Mahdi was originated by J. Veitch & Sons, Langley, England, by crossing the Belle de Fontenay raspberry with the common blackberry.

It has been said of the Paris trees that every one of the millions is as carefully nurtured and protected as a pet tree in an English nobleman's park. Thousands of men are kept continually employed training, planting, watering, pruning, etc. Street trees represent a formidable item in the yearly municipal expenditure. Parisians spend much of their time out of doors, and, as seats generally accompany rows of trees, rest and shade are never far to seek.

The Gardeners' Magazine, London, Eng., referring to the appointment of Prof. L. H. Bailey to be dean of the College of Agriculture at Cornell University, says; "No one will question the fact that his teachings and writing have had a wider, beneficial effect upon experimental horticulture and horticultural literature in America than that of any other man, and they have exercised some influence upon cultivators in this country."

Subscribe for the NATIONAL NURSERYMAN. All the nursery news. \$1 per year.

STATISTICS OF HORTICULTURAL PRODUCTS.

The twelfth census of the United States shows the following facts :

VEGETABLE CULTURE—In 1899 there were planted to vegetables 5,753,191 acres; or two per cent. of the total area of the country devoted to crops. The vegetables grown had a total value of \$238,846,908. The potato was the most important vegetable grown. The production was 273,328,207 bushels, an increase of 25 per cent. over the preceding decade. Commercial gardening, that is, truck and market gardening, increased about 100 per cent. at the North and fully 200 per cent. at the South during the decade.

CANNING INDUSTRY—The canning industry is about double that of a decade ago. The pickles, preserves and sauces put up in 1900 were valued at \$21,507,046, and the canned fruits and vegetables at \$56,668,313, of which the vegetables approximated but did not exceed one-half the total value.

FRUIT CULTURE—The total value of all fruits produced in the United States in 1899 was \$131,423,517. Orchard fruits alone were valued at \$83,751,840; grapes, \$14,090,937; small fruits, \$25,030,877, and sub-tropical fruits, \$8,549,863. During the last decade orchard fruit production as a whole increased 15.4 per cent. Apples alone constituted 55 per cent. of all orchard trees, peaches and nectarines 27.2 per cent., and plums and prunes 8.4 per cent. The total acreage of small fruits was 304,029, and the value of the product per acre \$82.33. Strawberries constituted about 50 per cent. of the total acreage of small fruits. Raspberries stood next in importance. The total value of all cultivated nuts was \$1,950,161. California alone reported 73.9 of this total. That state leads in the production of almonds and English walnuts. Texas leads in the production of pecans.

FLORICULTURE—In 1899 there were 30,417 farms reporting land under glass, representing a total of 96,230,420 sq. ft., or over 2,200 acres. Of this number 6,159 were commercial florists' establishments, having about 51,023,000 sq. ft. of land under glass. The total wholesale value of floricultural products was \$18,759,464, of which \$17,377,860 was for florists' products. The retail value, it is thought, could not have been less than \$30,000,000. The annual income from cut flowers alone is estimated at \$12,000,000 to \$14,000,000. The sale of cut roses is estimated at \$6,000,000, carnations \$4,000,000, violets—which stood third in importance—\$750,000, and chrysanthemums \$500,000. The annual production of roses and carnations is 100,000,000 each, violets 75,000,000. The average prices for roses and carnations is 20 to 25 per cent higher than 10 years previous, while violets, lilies of the valley, and tulips have considerably decreased in price.

NURSERY INDUSTRY—Relative to the nursery business the twelfth census showed a total of 2,029 establishments, with 137,459 acres devoted to the growing of young trees. The value of the products from this area was \$9,231,503. New York leads in the production of nursery stock with a total of 237 establishments, yielding products valued at \$1,703,354. Other leading states in value of product are Iowa, \$636,543; Illinois, \$610,971; California, \$533,038; Ohio, \$538,534, and Pennsylvania, \$515,010.

JOHN S. KERR.

John S. Kerr, proprietor of the Sherman Commercial Nurseries and Orchards, the subject of our sketch, is a pioneer in the horticulture of the Southwest. Of Scotch-Irish extraction, born in Maury county, Tennessee, in 1847, he moved with his father and mother, five brothers and three sisters to North Texas in 1859. After the Civil war, in which he served

one year in the Southern army at the age of seventeen years, he entered actively during the famous reconstruction days into stock farming and used well all means at command in those early days for a good academic education. He was a constant reader of the American Agriculturist, Purdy's Fruit Recorder, the New York Observer, and other like substantial literature.

Early possessed with a love for horticulture, despite the then prevalent idea that Texas could grow neither fruit, flowers nor vegetables, but only long-horned cattle and Spanish bronchos, the open range of the great Texas black land belt being curtailed by the stock farms, running land up from one to twenty-five dollars per acre, he abandoned stock farming and entered with his brother, A. W. Kerr, into nursery and fruit growing, early in the seventies. In 1890 he bought out his brother and has since been sole proprietor of the Sherman Commercial Nurseries and Orchards. From a few acres in nurseries and orchards, this business has steadily and rapidly grown commensurate with the wonderful growth and develop-

ment of the great state of Texas, which growth is not more marked in any other line than in her amazing horticultural and truck farming interests.

John S. Kerr has always enjoyed the esteem and confidence of a large, substantial and growing trade, both retail and wholesale, throughout Texas and the southwest. He is a charter member and ex-president of the Texas State Horticultural Society, secretary of the Texas Nurserymen's association, member of the executive committee of the American Nurserymen's Association, vice-president for Texas of the American Apple Growers' Congress, active worker in other leading horticultural associations, and always ready for every good work in horticultural progress.

The Commercial Nurseries and Orchards now comprise twenty acres of valuable lands in North Sherman devoted to ornamentals, with perhaps one of the best equipments of any nursery in the Southwest in barns, packing sheds, water works, etc., all being within one-half to three-quarters mile of the depots of Sherman's seven lines of railroads, with switch of M. K. & T. Ry. on the grounds. Besides this, there are 425 acres of fine alluvial sandy land owned in the Red River apple belt near Pottsboro, a station on the M. K. & T., where most of the nursery stock and complete test orchards are grown. Also stock is owned in large peach orchard enterprises in East Texas. A pecan orchard of large proportion is projected on fine bottom land in East Texas, where the finest nuts only will be grown on grafted and budded trees.

NEW PARK PROJECTS.

Montpelier, Vt.; Youngstown, O., \$4,000; Plainwell, Mich., \$2,000; Clayton, N. Y. Mrs. Charles G. Emery; Alleghany, Pa., Riverside park improvement, \$100,000; South Bend, Ind.; Muncie, Ind., new McCulloch park; St. Louis, Forest park improvement, \$10,000; Amsterdam, N. Y., 15 acres; Urbana, Ill.; Washington, Pa., \$5,000; Leavenworth, Kan.; Brookline, Mass.; Springfield, Ill., \$75,000; Kansas City, Kan., 100 acres.



JOHN S. KERR.

The National Nurseryman.

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., OCTOBER, 1903.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, N. W. Hale, Knoxville, Tenn; vice-president, Frank A. Weber, St. Louis, Mo.; secretary George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.
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Committee on Publicity—Ralph T. Olcott, Rochester, N. Y.; Orlando Harrison, Berlin, Md.; Prof. W. G. Johnson, New York City.
Committee on Exhibits—R. C. Berckmans, Augusta, Ga.; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester.
Committee on Cost of Growing Trees—Wilson J. Peters, Troy, O.; W. F. Heikes, Huntsville, Ala.; Theodore Smith, Geneva, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.
NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.
EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, A. L. Brooke, N. Topeka, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.
SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.
SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.
PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Organized at Portland, Ore., January, 1903.

NEW ERA FOR AMERICAN ASSOCIATION.

"Not long ago," says Professor L. H. Bailey, "I stood on the great stairs of the new agricultural building at the University of Wisconsin with Professor Henry. I asked, as I admired the great building: 'Why do you build such handsome stairways and pillars?' The answer was quick and emphatic: 'I want the farmer or the farm boy when he comes here to take off his hat and say, 'At last the farmer is as good as anyone. He has risen to the top. Agriculture is as important as any other subject.''" He struck the keynote of the situation; agriculture is to be recognized for its full value and the farmer is to have greater pride in his business."

Just so with the nursery trade. It ought to be recognized for its full value, and we believe a new era in the history of the American Association of Nurserymen was begun when President Ilgenfritz sounded the keynote of a fuller realization of the advantages afforded by the existence of this national organization and the benefits to be derived from a carefully arranged programme at the annual conventions, where there may be free and unrestrained discussion of practical trade topics. For years we have advocated this.

A NATIONAL FRUIT AND WINE EXPOSITION.

The long list of special expositions held in New York City is to have an addition in January, 1904, in a National Fruit and Wine Exposition. It will be held January 18th to 30th at the new Herald Square Exhibition Hall at Broadway, Sixth Avenue and Thirty-fourth street. Its projectors say that among the responses received to their invitation to individual fruit growers, packers and shippers—and associations of them—and to wine manufacturers, to exhibit, are many evidences that the Exposition will be seized as an opportunity by the boards of trade, promotion committees, county commissioners, fruit associations and other commercial bodies to advertise in, and through this metropolitan show, display their home resources and attractions, as well as horticulture, its products and auxiliaries. The earliest responses, according to the "Fruit Show's" Manager, Alfred Chasseaud, came of course from California.

Manager Alfred Chasseaud of the Herald Square Exhibition Hall, New York City, will send illustrated prospectus and particulars to all who apply.

NEW JERSEY'S INSPECTION LAW.

The state of New Jersey has a new inspection law which creates the office of state entomologist and declares that all gardeners, horticulturists, farmers, nurserymen and other growers and dealers in plants of any kind upon their own or leased lands shall free and keep freed all plants, shrubs, trees, etc., from all injurious insects. Florists' stock is excepted. A certificate of inspection must accompany all stock sold.

All nurserymen growing or dealing in nursery stock must erect and maintain a fumigating plant on the nursery on which their stock is grown. Stock must be fumigated before shipment, except evergreens and florists' stock. Any nurseryman who sells or ships stock without a certificate or without fumigation shall be subject to a fine of \$50 for every such sale.

or shipment, and the use of a certificate unlawfully shall subject a nurseryman to a fine of \$100.

All nursery stock shipped into the state of New Jersey must be accompanied by a certificate dated not more than six months prior to date of such shipment. The state entomologist has power to inspect stock at all times.

To a representative of the NATIONAL NURSERYMAN, State Entomologist John B. Smith, New Brunswick, N. J., said: "It will be our object to enforce this law as strictly as possible, and yet so as to cause as little trouble to the individual nurseryman as may be. The law does not require it, but it will facilitate matters if nurserymen who expect to send stock into New Jersey will file in this office a copy of their certificate."

FOR A NURSERY EXHIBIT.

The chief of the department of horticulture of the California Louisiana Purchase Exposition, George C. Roeding, has forwarded a letter to all the nurserymen of the state, in which he says regarding a nursery exhibit:

Nothing in recent times will offer such a splendid medium for advertising your products as this exposition to be held at St. Louis next year. As a nurseryman, I am fully aware that in order to prepare plants for exhibition purposes, it is necessary to take this matter up a number of months ahead, otherwise it is out of the question to have specimens in good order. This is my reason for writing to you now. We are not only looking for plants, but anything else which in your opinion would be desirable for exhibition purposes. I have been authorized by the commissioners to state that anything in the plant line which you furnish will be transported to St. Louis free of charge, and that the plants or trees will receive the very best of attention while there. If there is any possibility of disposing of them, if you will fix a price we will do our very best to sell them for you; or if it is found impossible to do this, they will be sent back without any expense to you. Furthermore, I beg to state that these plants will be properly labeled, and your name, as exhibitor, will appear on each plant.

On account of the more favorable climatic conditions in St. Louis, as compared with Chicago, no difficulty is anticipated in keeping plants grown out of doors in good order.

OFFICE BUILDING AND PRINTING PLANT.

The Jewell Nursery Co., of Lake City, Minn., owing to largely increasing business have, in connection with other improvements, found it necessary to erect a new office building which is three stories high, 140 feet long, and 35 feet in width. They also have a complete and up-to-date printing press and outfit, capable of printing their own catalogues, advertising matter, etc., besides publishing an eight page semi-monthly bulletin for the exclusive benefit of their 700 agents.

UTAH REGULATIONS.

The State Board of Horticulture of Utah, on June 2, 1903, adopted the following regulation regarding nursery stock:

No trees, shrubs or vines shall be imported into this state by nurserymen, corporations or private individuals unless properly certified to as having been fumigated by hydrocyanic gas before shipment. Importations of trees or shrubs unaccompanied by such certificate of fumigation shall be held in quarantine at owner's risk until so fumigated, at the cost of the importer, to the satisfaction of the county horticultural commissioners or inspectors.

AMERICAN ASSOCIATION TOPICS.

Editor NATIONAL NURSERYMAN:

At the Detroit convention, and since that time, I have heard a good many prominent members of the American Association of Nurserymen express an opinion that the membership should be confined more closely to the nurserymen and fruit growers, and that dealers in supplies, printers, advertising agents and others, should not be received into full membership in the organization.

And further, that the business of the Association and its discussions should be confined to executive sessions, at which only members of the Association should be admitted, with a further suggestion that there could be one or more open sessions to which the public generally would be invited and welcomed.

The idea being, evidently, to make the Association more closely a trade organization, and excluding the public from the regular sessions of the organization, so that it might be possible more thoroughly and frankly to discuss questions of vital interest to the members of the Association.

It is felt that under the present system matters which might be discussed to advantage are put aside, because it is not policy to bring them up before a public meeting, to be followed by publication in the horticultural papers which are usually represented at the meetings.

I do not know how prevalent this feeling is among the members, but I have seen evidences of considerable of it, during the past two or three months. I have also heard considerable discussion on the proposed increase in annual dues from two dollars to five dollars, and think that there is a wide difference of opinion on this question. This matter, I believe, was referred to the Executive Committee, with instructions to report at the next meeting, and I have no doubt that the Committee would be glad to have the views of the members on all these matters, and would suggest that the best way to get an expression of opinion, is for each member to write a letter to the Executive Committee or its chairman, frankly stating his views on these questions, and I have no doubt that the committee would be guided by the views of a majority of the members.

Very truly,

Aug. 28, 1903.

AN ASSOCIATION MEMBER.

HORTICULTURE IN THE PHILIPPINES.

In the first report of the bureau of agriculture of the Philippine Islands, by Prof. F. Lamson-Scribner, the following reference is made to horticulture in the new possessions:

With the exception of the mango the fruits of the region have been practically wholly neglected in the past. Such tropical fruits as bananas and pineapples and the extra-tropical citrus fruits, are wholly undeveloped in the islands, although the conditions of the soil and climate are generally adapted to the growth of bananas and pineapples, and, in selected localities, to oranges and other citrus fruits. Improved varieties of orange and lemon brought from California are flourishing both in the lowlands and in the mountains of Benguet, while pear, peach, apricot, and plum trees have been successfully introduced in the latter region.

DONALDSON & GIBSON, Warsaw, Ky. — "Enclosed please find \$1 to renew our subscription to the NATIONAL NURSERYMAN. We take a number of trade and horticultural papers, but we are always more eager to scan the columns of the NATIONAL NURSERYMAN than any of the others. We always find every page interesting."

TO TEST THE LAW.

Aggressive Work by Legislative Committee of American Association—West Virginia, Michigan and Connecticut Regulations to Be Attacked—Preliminary Report.

Chairman William Pitkin, Rochester, N. Y., has received a number of inquiries during the past few days as to the action taken by the Legislative Committee of the American Association of Nurserymen, which was authorized at the Detroit Convention to consider the legality of certain state legislation regulating shipments of nursery stock, and authorized to procure a legal opinion on the matter. Believing that the members of the Association are anxious to know the situation he takes the liberty of making the following report:

The committee has taken up the laws in Virginia, West Virginia, Michigan and Connecticut, and has secured a legal opinion in the matter from attorneys whom we believe to be competent.

Our attorneys pronounce the Virginia statute as good law, and see no way in which it can be successfully attacked. Our attorneys advise us that the West Virginia statute is bad law, and can be easily upset, for the reason that the provision requiring a license in each county is plainly for revenue, and not for the protection against disease, and is therefore an attempted regulation of Interstate Commerce and invalid; and that the provision requiring fumigation of foreign stock shipped into the state is also invalid as an attempted regulation of Interstate Commerce.

Our committee decided to notify the West Virginia authorities that we should advise the members of our Association to attach to each package going into the state the regular inspection certificate, and say to them that we should decline to pay the license, and should decline to fumigate, believing that the provisions of their law were unconstitutional, and that we would be glad to arrange for a test case.

Our attorneys advise us to make shipments as usual, with certificates of inspection attached, and tell us that if the local authorities attempt to hold up our goods, and in that way collect the license fee, that such authorities must first give bonds before an attachment will hold, and we can then either give bonds and release the goods and make our deliveries, or, if the goods are damaged by the attachment and the ensuing delay, the bond would be responsible for the loss after the case was fought through.

As to the Connecticut law, the statute requires fumigation of all foreign stock entering the state, but the penalty is not very burdensome, for the law simply provides that if nursery stock is received into the state without a fumigation certificate, the consignee may call on the State Inspector to inspect the stock, and may deduct the expense of the inspection from the amount of the consignor's bill. Should that be done in any case it would be a very easy matter to test the law by bringing suit against the consignee for the full amount of account, and our attorneys advise us that there can be no doubt about the outcome, as the statute discriminates against outside nurserymen by requiring fumigation only of foreign stock, and is therefore invalid and unconstitutional as an attempted regulation of Interstate Commerce.

As to the Michigan law, the statute requires that every nurseryman or dealer doing business in the State, whether resident or non-resident, must file a certificate and pay a license fee of \$5.00. The non-resident must file the inspection certificate of his own State. Our attorneys advise us that these requirements are reasonable and valid, and we advise the members of the Association to comply with these provisions. The Michigan law further requires that all nursery stock shipped into the State must be fumigated and bear the certificate of the shipper that it has been fumigated. This provision does not apply to home-grown nursery stock, and our attorneys advise that it is unconstitutional and invalid as an attempted regulation of interstate commerce. The statute further provides that a bond of \$1,000 must be filed, conditioned on the full observance of the law in all its particulars. Our attorney's opinion is that this provision is invalid and cannot be enforced, because the filing of the bond is not necessary to the proper carrying out of the

inspection purpose, and further, that the bond requires compliance with all the provisions of the law some of which are plainly unconstitutional and invalid; and they advise us to file the certificate, pay the license fee, and decline to give bond, and decline to fumigate the stock and attach a fumigation certificate.

Our Committee will take the matter up with the Michigan authorities on this line, and ask for a test case. Our attorneys tell us that if we ship goods into the state on this plan that there is no provision in the law authorizing confiscation of the goods,—possibly the goods may be held up by attachment, but if so the authorities must give bonds, and the shipper can give bonds and release and then fight the thing out, and should damage result the bond is responsible for the damage.

We do not consider it likely that either West Virginia or Michigan will attempt any wholesale confiscation or hold-ups after they are advised that it is proposed to test the law, for the reason that the officials will not be likely to give a multitude of bonds, as they would have to do if they attempted a wholesale hold-up, but are more likely to be content to attach one shipment and make a test case, and find out where they stand before going further. This I think is the situation up to date.

Yours truly,

WM. PITKIN,

Long and Short.

Grafting knives are specialties with Maher & Grosh Co., Toledo, O.

Wood labels for nurserymen are sold by Benjamin Chase, Derry, N. H.

Evergreen and forest tree seedlings can be had of R. Douglas' Sons, Waukegan, Ill.

W. C. Reed, Vincennes, Ind., offer in carload lots choice fruit and ornamental stock.

Jackson & Perkins Co., Newark, N. Y., offer in another column a list of special surplus.

The fall announcement of McNary & Gaines, Xenia, O., in another column is of interest.

Fruit stocks and seeds, raffia and specialties are offered by Thomas Meehan & Sons, Dreshertown, Pa.

Natural Virginia Peach pits, Apple seedlings and Grape vines at Emporia Nurseries, Emporia, Va.

The Southern Nursery Co., Winchester, Tenn., offers Apple, Peach, Pecan, Cherry, Evergreens and No. 1 Roses.

Laurel-leaf Willows, Norway Maples, and other fine ornamental stock may be had of E. Ferrand & Son, Detroit, Mich.

W. N. Scarff, New Carlisle, O., have almost anything in small fruit plants, including Haymaker, the new raspberry.

J. G. Harrison & Sons, Berlin, Md., call attention to their announcement in another column of trees ready for shipment.

Knauth, Nachod & Kuhne, William Street, New York City, have a general list of nursery stocks grown by Barbier & Co., France.

The Cedar Hill Nursery and Orchard Co., Winchester, Tenn., has natural Tennessee and North Carolina Peach pits, crop of 1903.

E. S. Welch, Shenandoah, Ia., has Apple in large assortment; also Plum, Peach, Cherry and Pear; Roses, Shrubs, Ornamental trees.

August Rolker & Sons, Barclay Street, New York, are agents for Elmiere Sebire, Ussy, France, growers of nursery stock and seedlings.

WABASH RAILROAD RATES.

On October 3d to 7th inclusive the Wabash Railroad will sell round trip tickets from Buffalo to Denver, Col. Rate \$42.00, good for stop-overs and limited to October 31st.

On October 7th to 16th, the Wabash Railroad will sell tickets to San Francisco or Los Angeles and return, from Buffalo, at rate of \$81.70. Tickets good going and returning via diverse routes and limited to November 30th. Allow stop overs.

Daily until November 30th, the Wabash Railroad will sell one way colonist tickets from Buffalo to San Francisco, Los Angeles, Portland, Seattle, Tacoma, Victoria and Vancouver, B. C., at rate of \$42.50. Correspondingly low rates to intermediate points.

On first and third Tuesday of each month until November 17th inclusive, the Wabash Railroad will sell one way and round trip tickets at greatly reduced rates to many points in the West and Southwest. For further information write

R. F. KELLEY, G. A. P. D.

JAMES GASS, N. Y. S. P. A., 287 Main street, Buffalo, N. Y.

Among Growers and Dealers.

L. A. Berckmans, Augusta, Ga., visited New York last month.

John McAnelly, Mendota, Mo., has sold his nursery to Joseph Miller, of Unionville, Mo.

T. V. Wilson, Hall's Corners, N. Y., is the president of the New York State Fruit Growers' Association.

Thomas E. Cashman, nurseryman, has been appointed superintendent of the Owatonna, Minn., Experiment Station.

R. M. Teague of the San Dimas Nurseries, California, has shipped two carloads of orange trees to Johannesburg, South Africa.

A writer in the Kansas Farmer suggests that trees be planted to improve the condition of the recently flooded lands in Kansas.

Brown Brothers Company, of Rochester, N. Y., will probably offer the new rose, Mme. Norbert Levavasseur, in the fall of 1904 or spring of 1905.

P. J. Parrott, entomologist of the Ohio Experiment Station, succeeds Victor H. Lowe, deceased, at the New York Experiment Station, at Geneva.

Charles Fremd, Rye, N. Y., who was injured in a carriage accident on August 17th is improving rapidly. He will return to his home early this month.

In 1859 S. M. Bayles founded the South St. Louis Nurseries. He retired in 1894 and was succeeded by the present proprietors, J. W. Schuette & Co.

E. Albertson and wife, Bridgeport, Ind., visited Rochester and Dansville nurserymen early last month. They went to New York before returning home.

Fred L. Atkins, of the firm of Bobblin & Atkins, Rutherford, N. J., has returned from his European trip. He has secured an interesting supply of novelties and general stock.

Victor H. Lowe, for some years entomologist at the N. Y. State Experiment Station, Geneva, died August 27 at Fort Collins, Colo. He was a native of Michigan, 34 years old.

J. W. Stanton, president of the Horticultural Society of Southern Illinois, has been appointed to take charge of Illinois Horticultural exhibition at the Louisiana Exposition at St. Louis, in 1904.

Orlando Harrison, of the firm of J. G. Harrison & Sons, Berlin, Md., called upon Rochester nurserymen late last month. He was a delegate from Maryland to the Farmers' National Congress at Niagara Falls.

The American Apple Growers' Congress will meet in second annual convention at the Lindell Hotel, St. Louis, Nov. 17-18. Henry M. Dunlap, Savoy, Ill., is president; T. C. Wilson, Hannibal, Mo., secretary.

A recent issue of the Tacoma, Wash., Ledger, says the State Horticultural Commissioner is now filling 600 great glass jars, each four feet high, with specimens of fruit that will make the mouths of World's Fair visitors water.

At the annual meeting of the American Association of Cemetery Superintendents, in Rochester, N. Y., John C. Dix, of Chicago, was elected president. W. C. Barry addressed the Association on the subject of variety in cemetery trees.

Three hundred and twenty acres of land at Fitzwilliam, N. H., including the 11 acres of Rhododendron Maximum, the largest growth of these plants east of the Alleghenies, has been given to the Appalachian club by Miss Mary L. Ware.

Herbert S. Chase, Huntsville, Ala., wife and son, visited Rochester friends and relatives in Western New York during a portion of August and September. The son has the proud distinction of being born in the great Empire State during this visit.

W. V. Rupert & Son, Seneca, N. Y., have a Russian sweet apple, the advisability of introducing which they question by reason of doubt regarding a considerable demand for another sweet apple. There is comparatively little demand for sweet apples.

Charles T. Smith of Concord, Ga., has been elected president of the Concord Baking Company, a new bank lately chartered at that place

with \$25,000 capital. Mr. Smith will continue to hold the position of business manager of Smith Brothers' nurseries.

At the Farmers' National Congress at Niagara Falls Sept. 22, Hon. James Wood, Mt. Kisco, N. Y., spoke on the enlargement of foreign markets. Prof. F. M. Webster, Urbana, Ill., discussed the effects of insect pests. Governor Odell and Hon. T. M. Woodruff were on the programme.

Charles H. Vick, director of the New York state horticultural exhibit at the St. Louis World's Fair, states that the extensive grounds around the state building will be largely planted by four Rochester nursery firms, Chase Bros. Co., Ellwanger & Barry, John Charlton & Son and Brown Bros. Co.

Petitions have been sent to the park commissioners of Brooklyn to have Third avenue planted with trees from Sixty-sixth street to Fort Hamilton. One thousand one hundred Norway maples are to be planted along Fourth avenue between Fortieth street and Flatbush avenue. Fourth avenue is 120 feet wide.

The Jonesboro Nursery and Plantation Co., Jonesboro, Ark., has been incorporated under the laws of Arkansas with these officers: President, J. W. Ligon; vice-president, P. S. Hudspeth; secretary and treasurer, C. M. Galeener. The directors are: T. E. Baldwin, W. B. Peters, L. B. Ligon, P. S. Hudspeth, J. B. Harper, J. W. Ligon, C. M. Galeener.

Prof. Samuel B. Green, at the Minnesota Experiment Station, has grafted the tomato upon the potato and produced a plant which bears tomatoes on the top and potatoes on the root at the same time. A good thrifty potato is started in a 6 inch flower pot and when about ten inches high is cut off at about eight inches, and a top of a thrifty tomato plant is inserted in it.

A Society for Horticultural Science was formed at Boston last month, with Prof. L. H. Bailey as president and Prof. S. H. Beach as secretary, and an executive committee composed of L. C. Corbett, of Washington, D. C.; W. R. Lazenby, of Ohio; J. C. Whitten, of Missouri, and F. A. Waugh of Massachusetts. Membership will be limited to persons actually engaged in teaching horticulture or in investigations bearing directly on horticulture.

GREAT YEAR FOR CALIFORNIA.

"This is the one great year for California fruits in our eastern markets," says J. H. Hale, "and I wish the greatest of prosperity to all my fellow fruit growers of California. Such a shortage of good fruit in the East is not likely to occur again in a lifetime, and I rejoice that our brothers of the Pacific Coast are in a position to take advantage of the markets, and I hope they are getting their full share of the profits."

NOVA SCOTIA APPLE CROP.

According to official estimates, based on present indications, there should be a full crop of superior Apples in Nova Scotia, with a surplus of over 400,000 barrels for export, varieties and qualities being about as follows: Nonpareil, 60,000 barrels; King, 50,000; Gravenstein, 50,000; Ribston Pippin, 40,000; Golden Russet, 30,000; Baldwin, 60,000; Rhode Island Greening, 30,000; other varieties, 80,000 barrels.

TO DETROIT AND KANSAS CITY.

On October 16th to 20th, inclusive, the Wabash Railroad will sell tickets to Kansas City and return from Buffalo at rate of \$33.70, limited to October 26th. Extension of limit to November 10th, can be secured for 50 cents. Only line offering through service from Buffalo.

On October 15th, 16th, 17th and 19th the Wabash Railroad will sell tickets from Buffalo to Detroit and return at rate of \$7.00 good returning October 23rd. Four limited trains each way daily. Write for further information to R. F. KELLEY, G. A. P. D. Wabash Railroad, 287 Main Street, Buffalo, N. Y.

Recent Publications.

The Department of Agriculture has issued a bulletin on bitter rot of apples, a disease that caused damage to the apple crop of 1900 to the amount of \$10,000,000.

Country Life in America for October is a superbly illustrated, double Country Home number, and takes up the various problems that cluster about the building of a country house, from how the cellar can be kept dry, to the question of interior decorations, it is, in fact, a complete house building manual.

The World's Work for October has a portrait of and reference to the late Frederick Law Olmsted. Timely and significant is the usual financial article indicating the growing influence of New Orleans as the export outlet for the west and northwest accompanied by a map of the southern railway systems as changed by recent Wall street manipulations.

The Department of Horticulture at the St. Louis World's Fair has just issued a circular of forty pages which gives very complete information with regard to every possible question which may arise with relation to that department. A part of the pamphlet is devoted to a statement as to the importance of placing a large amount of fruit in cold storage this fall in order that the space to be assigned any state may be covered at the opening of the Exposition and kept covered during its entire period. A copy of the circular may be obtained of Frederic W. Taylor, chief of the department, St. Louis, Mo.

One of the finest catalogues of the season and indeed one of the finest that has ever come to our desk is that of the Andorra Nurseries, Wm. Warner Harper proprietor, Chestnut Hill, Philadelphia. It is prepared along the most modern lines and is a model of what, in our opinion, a nursery catalogue should be. Printed in excellent taste, profusely illustrated, with half-tone engravings of a very high grade, alphabetically arranged and indexed, this catalogue will be preserved for reference wherever a list of high-grade ornamental and choice fruit stock is needed. Mr. Harper is to be congratulated upon his very successful endeavor to produce a catalogue that shall fittingly represent his well-known nursery.

Part II of the American Horticultural Manual, treating of systematic pomology, has been issued. It contains descriptions of the leading varieties of orchard fruits, grapes, small fruits and the nuts of the United States and Canada. It is illustrated with hundreds of outlines of the leading commercial fruits and nuts. The two volumes of this manual are by Prof. J. L. Budd, of Iowa, and Prof. N. E. Hansen, of South Dakota, whose research in horticultural lines especially fitted them for the work. The plan of the work is to include only the varieties recommended at this time by societies and growers. The names of fruits, it is stated, will be made to conform mainly to the code of the American Horticultural Society. Probably the American Pomological Society is meant. The book, as well as the first volume, will prove a valuable source of information so classified as to be readily available. It shows the result of much labor. Prof. Hansen is the author of the two hundred or more pages devoted to the Apple. Cloth, pp: 491; \$1.50. New York: JOHN WILEY & SONS. London: CHAPMAN & HALL, LTD.

The popular interest in horticulture is recognized by the publishers of the Delineator which each month contains some attractive article on this subject. That in the October Delineator is devoted to hardy shrubs. It is by Ward McLeod who tells of the ease with which shrubs may be grown. The greatest error, he says, in planting shrubbery is the absence of a well formulated plan as to its disposal. A temporary symmetry is the sole aim at planting time, yet nothing gets beyond control sooner than shrubbery so planted. Massing the smaller shrubs increases their value in landscape effects, and gives least trouble in thinning out. Again, those of a kind, or of a similar habit, are not so likely to suffer from the encroachment of greedy neighbors, such as the rampant lilacs and strong-growing Philadelphus, with other spreading sorts that sap all the moisture and nourishment from the soil. Choice sorts of a low, and preferably of a weeping habit are especially adapted to planting near the house and in positions to break up the angularity of its foundation. Medium growers include the beautiful Deutzias in choice variety. Hydrangea paniculate grandiflora, rightly named, is considered the finest shrub grown and very hardy.

In Common Council.

Editor NATIONAL NURSERYMAN:

As you well know, the supply of peach seeds is very scarce this year. At this time I am very much interested in finding out the best method of handling seeds and know from correspondence with some others that this information would be of much value to many. Can you not through your journal, take up this matter, and in so doing be of much good to many of your readers?

Especially might information as to methods of handling seeds in sand or sawdust causing them to open in 80 or 90 days be of value owing to the late arrival of western seeds.

York Springs, Pa.

W. E. GROVE.

J. C. Hale, Winchester, Tenn.:—"In regard to the best method of handling peach pits so they will germinate quickly, will say that in the South we always try to plant our seed early in the Fall in the nursery rows. September, October and November are the best months; but sometimes we are not able to clear our land of a crop in time to plant our seed in the Fall. Then we stratify our seed by putting them out in the open, spread on the ground 2 or 3 inches thick, then cover them up three inches in sand. This should be done in September and October. Seed bedded in this way will germinate if planted in the Spring in February and March.

"This method is the only practical course to pursue in the South; but in the North, where the winters are very much colder, there might be some better way of handling pits, where they can be planted in the Fall."

J. G. Harrison & Sons, Berlin, Md.:—"We have usually practiced the method of preparing our land as we would for wheat, putting it in perfect condition, marking out the rows, dropping the seed in October and November; but last season, being short of labor, we were compelled to bed the seed during these months in layers about six inches deep, outside, covering them with sand from 2 to 3 inches deep and left them until February and March when we purchased a piece of land, prepared the soil and dropped the seed in the same manner as in the Fall. We have a most excellent stand of seedlings; in fact, we have never had better.

"I think our budded list of peach will be more than 1,500,000 this season, and at this writing we are not yet through budding, although they should have been completed during the month of August for best success."

M. B. Guthrie, Ortiz Fruit Farm, Mexico, Mo.:—"It is our custom here to plant peach pits in nursery rows during the Fall and early Winter, and have always secured splendid results. We are not familiar with any other method of treating peach pits."

Edwin Hoyt, New Canaan, Conn.:—"Peach pits should be buried on the south side of a fence or building, with the earth well mixed in with the pits. Put them from 4 to 6 inches below the surface. In April dig them out when the larger proportion of the pits will crack open, and the meat of the pit will drop out of the shell. Keep the pits from drying and plant, covering about one to one and one-half inches deep. In this way almost every pit will come up unless worms eat the sprout off before it gets through the ground."

H. S. Wiley, Cayuga, N. Y.:—"We usually get our peach seed in toward the end of November and cover 3 to 4 inches deep, placing the pits 2 to 3 inches apart. This is what we call 'bedding out' the seed. In the Spring we usually find a fair percentage of the seed cracked and sprouting; what does not crack we crack with hammer, using care not to bruise the kernel. The seeds are then planted in rows where they are to grow and are budded in August following the planting."

D. S. COLLINS, Manager Delaware Nurseries, Milford, Del.—"We herewith hand you check to renew our subscription to the NATIONAL NURSERYMAN. We think it the best trade publication and do not wish to be without it."

SOUTHERN NURSERY INTERESTS.

*Increasing Faster Than In Any Other Section of the Country,
Says G. L. Taber—The Reasons Therefor.*

In a discussion of the nursery interests of the South, G. L. Taber, Glen St. Mary, Fla., declared that these interests are increasing faster in the South than in any other section of the country. He gives the following reasons therefor:

First. Owing to the more favorable climatic conditions and longer growing period the cost of growing a nursery tree to a given size is cheaper South than North.

Second. On account of these more favorable climatic conditions trees can be handled from open ground during a much longer period. In the section in which I live we have a continuous shipping season of five months, from middle of October till middle of March.

Third. A larger number of species and suited to a larger territory can be grown in open ground in the South than in the North.

Fourth. Species and varieties not adopted to the South as to fruitage grow vigorously in Southern nurseries and prove hardy, thrive and bear abundantly after being shipped to their Northern habitat.

Fifth. Southern grown trees shipped North before the buds swell will hold dormant later in the spring of the year in which they are shipped than will Northern grown trees of the same varieties.

Sixth. The converse of the above is true as regards Northern trees shipped South. Every Southern nurseryman who obtains stock from the North knows that such stock starts growth much earlier in the spring than do the same varieties grown in the South. From the standpoint of the Southern dealer this shortening of the shipping season, where Northern grown trees are handled, is a serious drawback to the use of such trees.

Seventh. These comments on the action of trees moved from South North and from North South do not apply except during the initial year of the trees removal. After that they will start growth at the proper time for their particular variety as grown in that particular section to which they have been removed.

Scattered throughout this immense territory known as "the South" are numerous localities adapted by nature to the needs of the nurseryman and in which he can exercise his art under the most favorable conditions of soil and climate. In the particular section in which I am located we grow large blocks of Peaches, Pears and Plums together with Apples, Japan Persimmons, Figs and other deciduous fruits alongside of the more tropical Orange and other species of Citrus. Extensive rose blocks—all open ground rooted—contribute a wealth of color and fragrance and many kinds of Ornamentals as well as other kinds of fruit trees than those named above find congenial location.

TREE PLANTING IN NEBRASKA.

One hundred acres of land in the sand hills of the Dismal River Forest Reserve, Nebraska, were planted this spring by the Bureau of Forestry. On 80 acres 100,000 pine seedlings were set out; the other acres were sowed with seed. The work will continue this summer. The nursery will be enlarged so as to cover two acres, which will hold 2,000,000 seedlings. The bureau intends to increase the size of the nursery gradually so as to make it grow enough seedling trees every year to furnish sufficient stock for the planting. It is intended ultimately to turn the whole of the Niobrara and Dismal River reserves, which are now barren sand hills, into forest by planting. The Dismal River reserve includes 86,000 acres, the Niobrara reserve 126,000. A survey of the boundaries of the Niobrara reserve will be made this summer by E. J. S. Moore of the Bureau of Forestry.

DOWNER BROS., Guthrie, Ky.—"Enclosed find check for \$2 for subscription. We are pleased with the journal and don't want to be without it."

FOR ATLANTA NEXT YEAR.

R. C. Berckmans, Augusta, Ga., will do all in his power to make the next annual convention of the American Association a success. He is quoted as follows in the Peach Grower:

Not only will the benefit to the fruit industry come from these suggestions, however, but in addition to that it will be the very finest advertisement Georgia orchards have ever had, and as good advertisements generally do, will bring in its return.

I intend to go to work at once stirring up interest in the convention among the fruit growers of the state, and with Atlanta's splendid convention facilities there is no reason why the meeting next July should not be most memorable in the annals of the American Nurserymen's Association.

TRIBUTE TO MR. OLMSTED.

The Chicago Tribune says of the late Frederick Law Olmsted:

There his works stand! Central park in New York, the south side parks in Chicago, Prospect park in Brooklyn, Bltmore in North Carolina, and many others. Frederick Law Olmsted himself is gone. "One generation shall praise his works to another."

Mr. Olmsted had not only technical dexterity and practical effectiveness but creative genius. He was among those men who not only know what beauty is, but can make beauty. They see beauty grow under their hands. There are not many such men. That Mr. Olmsted was one of them means that most of the "great ones of the earth" seem small beside him.

ROOFING FOR NURSERY BUILDINGS.

Nurserymen who are contemplating the erection of packing, storage or other houses will do well to consider the use of Arrow Brand asphalt ready roofing, gravel-surfaced, which has given great satisfaction. This brand of roofing is used on the large New York Central stock sheds and freight buildings in Buffalo and in other cities. It comes in rolls already surfaced with gravel and can be applied by any handy man. Samples may be had of the company, Water Street, near Pine, New York City.

Treasurer for Nursery Co.

An Eastern Nursery Corporation one of the largest in the Country doing a business of nearly a hundred thousand yearly, whose treasurer has recently died, wishes to open negotiations with a young energetic party quite familiar with Nursery work and its economical management. Must be a man of the highest quality and executive ability. No capital required unless interest is desired, when Stock interests can be secured. A splendid opening for just the right man. Address

"NURSERY CO.," P. O. Box 718, New York.

WE offer a lot of very fine **LAUREL LEAF WILLOWS**, smooth and straight; 7 to 9 feet high, well developed heads. Also **NORWAY MAPLES**, smooth, straight bodies, 1 1/4 to 1 1/2 inches caliper. **SPIREA VAN HAUTTEI**, **CORNUS ELEGANTISSIMA**, **AMERICAN ARBOR VITAE**, fine stock; twice transplanted, all sizes; 2 to 5 feet. **AMPELOPSIS VEITCHI**, strong, 3 years, twice transplanted, grown in open field.

E. FERRAND & SON,
379 Vinewood Ave., Detroit, Mich.

RASPBERRY PLANTS [Tips]

Ready for Fall delivery. GREGG, TYLER, COLUMBIAN, SHAFFER, MILLS, CUMBERLAND. Write your wants for prices.

A. B. KATKAMIER, - Macedon, N. Y.

BARGAINS TREES and SHRUBS

In Leading Popular

WE OFFER AN IMMENSE STOCK OF

Norway and Sugar Maples, Oriental Planes, Pin Oaks

And most approved Shrubs for Parks and Cemeteries. All perfectly healthy, carefully grown and accurately graded.

Write for New Price List.

HOOPES, BRO. & THOMAS,

Maple Avenue Nurseries, West Chester, Pa.

SEED

Natural Virginia Peach Pits for sale. (Limited.) Also a lot of 1 year Grape Vines, Concord, Niagara, Warden, etc., etc.

Some transplanted Apple Seedlings No. 1, and 3 to 4 ft Peach 1 year.

Wanted to sell one-half interest in well established Nursery to one that can take charge of propagating. Good land to grow as fine trees as ever was seen. All kinds. Wholesale and Retail.

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AGENCY MGR. WANTED

Must be Competent and thoroughly experienced
NONE BUT HUSTLERS
NEED APPLY.

First-class references required. Force 500 to 1,000 agents. Salary liberal, with an additional 2½ per cent. BETTER YOURSELF. Address "Mutual" care National Nurseryman, Rochester, N. Y.

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16 Route d'Olivet ORLEANS, France.

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Is just issued and may be had from our Agents

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WRITE FOR IT!

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Wood Labels for Nurserymen and Florists

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TREE-BOX LUMBER

We are shipping to many of the largest nurseries all of their Tree-Box Lumber and they are SAVING MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

We want to hear from you.

Write us today for prices, etc.

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Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

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Sole Agent for United States and Canada.

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W. T. HOOD & CO.

Old Dominion Nurseries

RICHMOND, VA.

OFFERS FOR FALL 1903 AND SPRING 1904

California Privet, fine stock 1 and 2 yr. old;
Japan Plums; Apricots on Apricot; Sugar
Maples and American Elms; Small NATURAL
PEACH PITS, Crop 1903; and General line of
Nursery Stock.

PRICES ON APPLICATION.

We will be short on some varieties of Apples, Std. Pears and small
sized Peach for Fall delivery, and would be pleased to receive quota-
tions on same.

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
Forest Seedlings and Hedge Plants

Correspondence Solicited.

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TO THE

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FOUR DAILY VESTIBULED TRAINS

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THREE DAILY VESTIBULED TRAINS

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FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

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Full information regarding
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KENTIAS, PHOENIX, LATANIAS, PANDANUS and
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ORANGES, KUM KWATS, LEMONS, and LIMES
Fine shapely plants. Grafted on Trifoliata stock.

CHERRIES, 5 ft. and 15 ft.

PLUMS—Abundance, RED NAGATE and other stand-
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500,000 CITRUS TRIFOLIATA. (Hardy Lemon.)

BIOTA AUREA NANA in immense quantities.
CEDRUS DEODARA, RETINOSPORAS, JUNIPERUS,
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We have the largest stock of ornamentals ever grown in the
south. Can supply same in carload lots. No Scale. No Disease.

WRITE FOR PRICES.

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(INCORPORATED)
FRUITLAND NURSERIES,

Established 1856.

Over 400 Acres in Nursery.

AUGUSTA, Ga.

60,000 Feet of Glass.

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Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
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SHRUBS—Upright, Climbing and Standard.

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PAEONIAS—Large Assortment, Named Varieties.

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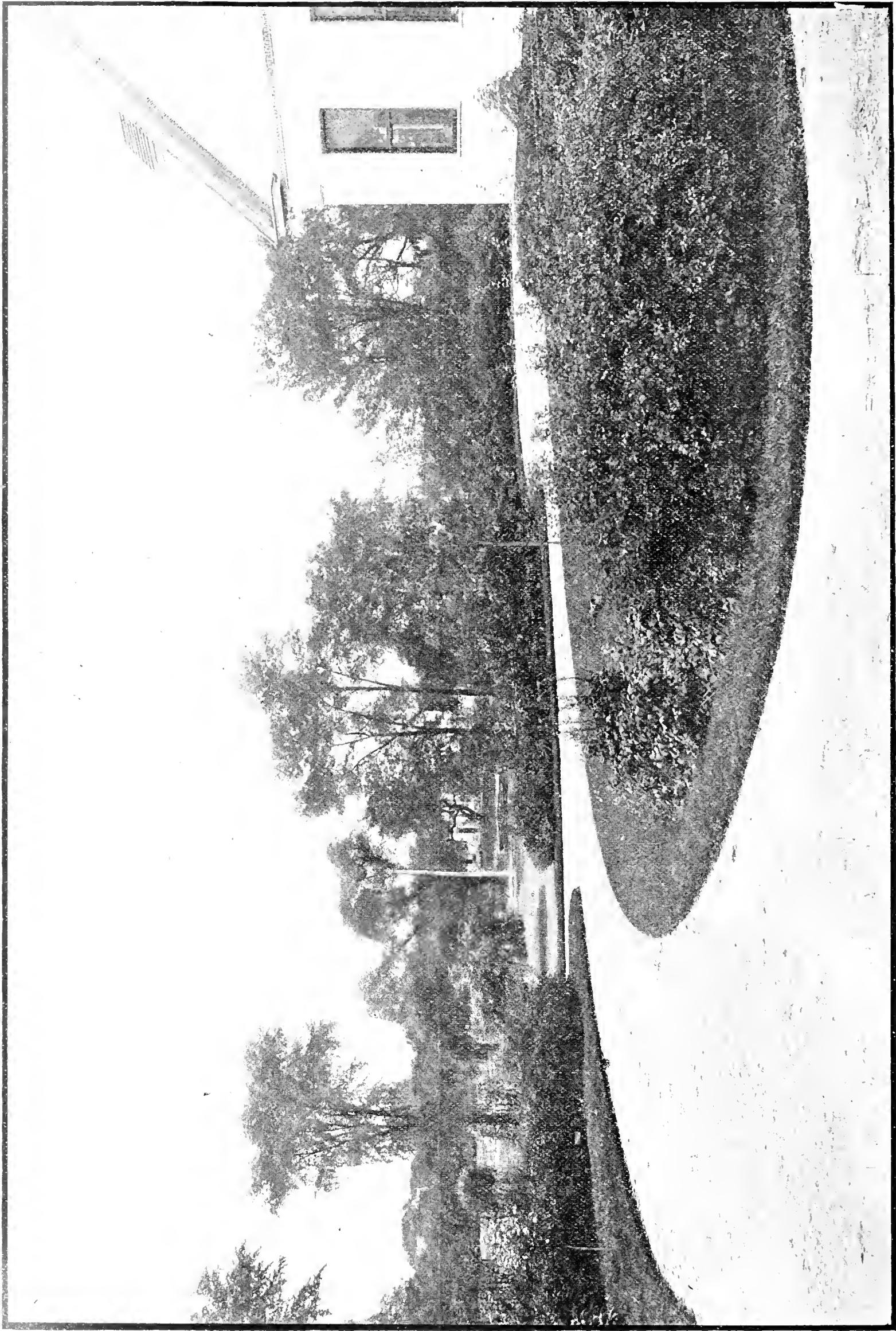
full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES. RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

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The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"What one adds to the world, not what one extracts from it, is the measure of a life's success."

Vol. XI.

ROCHESTER, N. Y., NOVEMBER, 1903.

No. 11.

THE FALL SALES.

Conditions Very Satisfactory—Prospect That Stock Will Be Cleaned Up Closely—Ornamental Stock in Strong Demand—The Outlook.

Bridgeport, Ind., Oct. 16, Albertson & Hobbs :—"We are right in the midst of our Fall packing now, just fairly getting a good start, and it is hard to estimate what the business is going to be, what the shortages will be, or really what the future prospects are, but from indications up to the present time, the Fall business is going to show up very satisfactory. While orders have been held back later than usual, they are coming in very nicely now. They are not quite as large as they have been at other times, but are in very good proportion to the supply of stock, and if demand keeps up as the present trade would indicate there will certainly be a very close cleaning up of almost all kinds of stock for Spring and but little cheap stock to be offered on the market, or but little surplus left, and that the beautiful bonfires that were made last Spring after the packing season was over will not be equaled again very soon. Certainly they will be very light for next Spring unless conditions change very much from present indications.

"Stock is grading out very far short on average or of estimates and we anticipate that before the year is out, when nurserymen begin to realize these shortages in their estimates, that they will find themselves short quite a good deal of stock that will be hard to secure in the market.

"Agents have done good work during the Summer and prospects are for a good Winter's canvass. We think the planting last season was fully up to the average, or possibly a little above, but the losses by floods, poor stands, &c., will cut it below the average and do not see now any prospect of any large surplus lines, unless it might possibly be Peach, for the next two or three years, but of course prices will depend somewhat upon the general financial conditions of the country. If this wave of prosperity continues they should remain good, but should we have some financial reverses or a stringency in the money market, we may expect lower prices.

"We have been having fine weather. Was dry up to about two weeks ago, when we had fine rains and ground is in elegant condition, though the season seems to be late and we have had no frost yet to ripen up the stock. Some kinds of stock are yet quite green and should not be handled until later. Weather is cooler at present, but no indications of frost.

"Pears seem to be going a little slow and somewhat of a drag on the market, but Apples, Cherries, Plums and Quinces are in good demand and the prospect seems to be for shortage in supply rather than any surplus, and we also believe the Pears will be used up closely. Small fruit plants, such as Gooseberries, Currants, etc., are also in good demand, and Currants and Gooseberries especially seem to be in short supply. Roses and ornamental stock have been in very strong demand and supply seems to be short, and if there is the usual proportionate demand in the Spring, hardly know where the supply is to come from.

"The future of the business, present conditions continuing, is certainly very favorable, and we think nurserymen can look forward to two or three years of very profitable business unless some outside conditions come up to affect it."

CHARLTON NURSERY CO., Rochester, N. Y., June 1, 1903.—"We enclose check for \$1.00 for renewal of our subscription. The journal meets with our approval; do not wish to be without it."

TEXAS ASSOCIATION

Business Air Plainly Apparent at Fall Meeting—Good Supply and Heavy Sales—Wholesale Trade-Lists Among Retail Planters Denounced.

The Fall meeting of the Texas Nurserymen's Association was called to order by President Kirkpatrick at the Texas State Fair grounds, October 3d. There was a fair attendance. Secretary John S. Kerr recorded the proceedings. A business air was most plainly apparent. The members report fine sales and good prospects and have a hustling air, looking to the heavy Fall movement of stock.

Strong resolutions were passed looking to and favoring the World's Fair movement pledging hearty co-operation with the Texas World's Fair Commission, Louis J. Wortham, manager Dallas Texas, and especially with Sam H. Dixon, superintendent of the Horticultural Department, Houston, Texas.

It was reported that eastern wholesale trade-lists are found currently circulated among Texas retail planters. The secretary was instructed to advise such nurseries of this fact, supposing that it may be a mistake. If persisted in the practice is denounced as unbusinesslike, unfair, unjust and unworthy.

A good apple crop is reported generally. Much interest centers in some southern keeping apples such as Texas Red, Hubbard, Bradford, Doyle and others. It is held that Ben Davis, Winesap Gano, Jonathan and Arkansas Black are the leaders.

The Slappy and Guinn peaches are favored as promising yellow, freestone, commercial peaches, ripening ahead of Elberta. It is apparent that future plantings should be largely of a commercial variety earlier than Elberta.

There seems to be a good supply of stock for this coming season and sales are heavy already.

PROTECTING PORTO RICO FRUITS.

A special to the New York Commercial says:

Leading fruit growers in Porto Rico held a meeting a few days ago and arranged for the appointment of a commission to inspect all fruit buds, all cuttings, seeds and other means of propagating fruit. As things are now the fruit trees and vines are remarkably free from disease. The oranges have the old form of scale, which is common wherever orange trees grow, but there is no San Jose scale and the white fly is unknown.

The fruit interests of the island are a unit in seeking to establish this preventive system and have agreed that no cuttings, buds or seeds will be used which do not bear the inspectors' declaration that they are free from the dangerous diseases common to fruit plants elsewhere.

THE BUSY SOUTH

Remarkable Development of Fruit Growing Industry—Plea for the Ornamental Department—Importance of Transportation Matters—A Great Work.

Following is the address of the president, J. C. Miller, Rome, Ga., at the annual convention of the Southern Nurserymen's Association at Winchester, Tenn.:

"Our convention meets to-day under circumstances of great encouragement. Since our last meeting in the city of Charleston, the nursery interests of the South have enjoyed their share of prosperity, and some of our members have reported to be on 'Easy Street,' if not on Wall Street.

"The expansion and growth of commercial orchard planting during the past two years is certainly wonderful. Fruit growing is becoming a great and profitable industry, increasing the wealth and prosperity of our South land. Without detracting the least from other lines of development, we think it can be truthfully said that fruit growing is doing more toward creating prosperous and happy homes than any other industry. Nurserymen should be very proud of the fact that they are the prime movers in promoting an industry that makes happy homes and more of everything that improves the homes of our people.

DANGER OF OVER-PRODUCTION.

"Still we hardly think it possible to keep the pace that has been set for any definite length of time and we should exercise caution or the effects of this may be lost in over-production. Already there are some indications of this state of affairs and we feel that the conditions that confront us demand careful consideration. The nursery interests by pursuing a conservative and prudent course will be able to protect themselves and possibly be a benefit to the planter.

"The recent extensive plantings have been largely peaches, or we might say Elberta, with a few of the earlier ripenings to fill out, but the time is at hand when we should, if possible, extend the season and disseminate some good varieties to follow the peerless Elberta. We simply mention the peach as an example; the want exists in many other lines. Possibly all of us are sending out every year varieties that are not suited to the locality simply because there is nothing better of the season. Let it be our constant aim to study the introduction of new and favorable fruits which will diversify and increase consumption. Every nurseryman should be on the lookout for new and promising fruits of chance origin, to see that each has adequate trial and honest judgment. But if you come into the possession of something promising, do not be in a hurry to rush into print and cumber it with a long list of adjectives. This opens up a broad and inviting field for every nurseryman who feels disposed to devote the time and labor to the work.

MORE ATTENTION TO ORNAMENTALS.

"Let us resolve to co-operate with our state experiment stations. In some of the states they do not get the support they should from the fact that people become impatient and want to see immediate and tangible results. To counteract this growing sentiment, our members must come to their aid in matters horticultural at least. We must furnish materials

for experiments and give freely of our experience and co-operation as to ways and means.

"The time has arrived when more attention should be devoted by the majority of our nurserymen to the ornamental department. A great demand for this class of stock will follow in the wake of commercial planting as certain as day follows night. Possibly some of us could do something to create a demand by way of our example. If we should return to our place determined to give some good object lessons along this line, this meeting will have accomplished great and lasting results.

TRANSPORTATION.

"As to transportation, this association through their committee, secured in the past a big reduction in freight rates. Your committee on transportation has not been able to accomplish anything during the past year. Conditions have been such that they could not get a hearing with a reasonable prospect of favorable results, so they deemed it advisable to wait for a more favorable time. There is no question that the nursery interests in the South have not received as liberal treatment from the railroads as our friends in the North and East. As this association should use every honorable method that they can command to secure from the railroads as fair treatment as is accorded to other sections of our country.

"The frank and unrestrained interchange of ideas on the floor of this convention and the free use of the question box is greatly to be desired. A well-directed fire from the question box will often bring out valuable information that cannot be furnished by the most carefully prepared essay. We are here for further improvement in our work and it becomes our duty to give consideration to all phases of the business. If abuses exist, try to remedy or eliminate them.

MAGNITUDE OF THE WORK.

"Few of us appreciate the magnitude of our work. We have problems before us that were unknown a few years ago. Conditions are changing, and we must adapt ourselves to these changed conditions if we would hope to be successful.

"I cannot close without a word of tribute to one of our number, who since our last session, had crossed over the river. We deplore the loss. His loyal and unselfish support, you could depend upon in all things looking to the advancement of our association."

DEPOT FOR SEED DISTRIBUTION.

The United States Department of Agriculture has announced that it will establish in California a depot for the distribution of seeds and plants for the whole United States. A committee of two has been appointed by the department to select a site of 100 acres somewhere in California for this purpose, and plants and seeds will there be grown under the direction of experts from the department for scientific purposes and distribution. This work is distinct from the annual free seed distribution of Congress.

THERE ARE OTHERS.

WEST MICHIGAN NURSERIES, Benton Harbor, Mich., June 1, 1903.—
"We enclose herewith our check for \$1.00, for which please renew our subscription for one year. We would not think of doing business without your paper."

AT EASTERN POINTS.

Unusual Demand at Geneva, Particularly on Ornamentals—Up to the Standard in Rochester—Dansville Nurserymen Busy — In New Jersey.

Bridgeton, N. J., Oct. 24.—Stanton B. Cole:—"Our wholesale trade will be up to the average for this Fall and hope our retail will be. A little too soon for us to tell just what it will be, as the season is early with us yet. We usually send out stock up to Dec. 1st."

Geneva, N. Y., Oct. 15—W. & T. Smith Company:—"We have to report an unusual demand for nursery stock this Fall. This is particularly true of all kinds of Ornamental Stock, including Roses.

"We think that the outlook is bright for a large Spring trade and many lines of stock will unquestionably be very scarce.

"We are inclined to think that generous plantings will be made the coming Spring by nurserymen in this vicinity."

Rochester, N. Y., Oct. 17—Brown Bros. Co.:—"Trade is fully up to any year that we have known. Spring business is starting well and we believe that stock will be used up very closely next Spring.

"We believe that next Spring's planting will be quite heavy, though probably not so great as would be the case were not Apple and Cherry seedlings a short crop. However, we always take an optimistic view of the nursery business, for we always feel that the outlook is good in a country as prosperous as this, and particularly as the whole country is being educated rapidly on the great value of fruit as food and the importance of planting ornamentals for shade and effect. The country is progressing rapidly along these lines these days, and we believe, as far as the nursery business is concerned, 'the best is yet to come.'"

Newark, N. Y., Oct. 17—Jackson & Perkins Co.:—"We have no fault to find with this season's business. From the wholesaler's point of view it has been very satisfactory. It has been, with us, a season when we have not been obliged, or indeed have not dared to do any special 'pushing' of wholesale business. The problem has been to provide stock enough for orders that come without special solicitation, rather than to find buyers for what we have to sell.

"We do not grow fruit trees extensively enough to be thoroughly posted upon the situation, but judging from the rapidity with which our own small stocks are being booked up, we believe there will be no considerable surplus, even of Apple and Peach.

Of Roses there appears to be a very decided shortage and all the staple varieties of ornamental shrubs and trees seem to be in exceptionally strong demand. We look to see a very close clean-up of wholesale stocks next Spring in practically all lines of ornamentals."

Dansville, N. Y., Oct. 25—James M. Kennedy:—"We are having exceedingly fine weather this Fall for handling nursery stock. At this writing about all the early shipments are disposed of. We think our early shipments were ahead of last year, and prices in advance of last year. We are now digging for late shipments, which we think will exceed any previous year. About all of the trees here are dug with the digger. they give better satisfaction than those dug by spades. The retail and catalogue trade is doing good work and it looks now as if the catalogue trade has come to stay, as its trade is increasing every year.

"The orders for nursery stock this Fall have been very liberal and we think more stock will be sold this Fall than any other previous year, showing a decided improvement to the benefit of the growers; the only serious drawback being the scarcity of labor in this section.

"I think we will have a fair supply of stock for next Spring trade. Japan Plums, Quinces, Sweet Cherries, are getting very scarce here; also some varieties of standard Pear and Apple. We still have on hand a general line of nursery stock. It will be safe in saying after next Spring trade we will not have to carry over any surplus stock or burn any up. The prices this Fall have been very good in all lines. We feel safe in saying that the outlook for a few more years at least is very promising, which will be good news to the growers. We think the planting next year will be about the same as this year, providing we can get the stocks."

IN THE WEST.

Stark Brothers Working Night and Day on Heavy Packing—Increased Sales on Pacific Coast—Help Scarce in Kansas.

North Topeka, Kan., Oct. 17 — Peters & Skinner: "It is too early yet for us to make anything like an accurate report on business. We handle but few trees in the Fall. So far, business has been equal, we think, to that of last season. A little later we may be able to give you more information in regard to the nursery trade in the West."

Louisiana, Mo., Oct. 16 —Stark Bros. Co.: "We beg to report a good growing season here, also in our several branch nurseries. The weather and conditions for packing are favorable. We have a heavier packing than usual which is progressing faster than last Fall, owing to our ability to work a night force, for which we equipped packing houses with electric lights. Indications are favorable for a splendid spring business. Doubtless spring nursery planting will be overdone for the good of future business."

Lawrence, Kan., Oct. 17—A. C. Griesa: "Trade with me is about the same as last Fall, which is very satisfactory. While the wholesale end of the business may be somewhat under a year ago, the retail department is much better.

"My stand of one-year stock is good all around, except Cherry, which suffered from the extremely wet season of the Spring and early Summer. Two-year Apple will run to lighter grades than usual, the 2 being largely in the majority. We think this is true of many blocks of other growers.

"The Fall has been very favorable and stock is well ripened. Help of all kinds is scarce and 25% higher than former seasons."

Ottawa, Kan., Oct. 22—F. H. Stannard & Co.: "We are just in the midst of our retail packing, which is a little larger than usual; wholesale trade is a little light with us, principally on account of our not having our usual surplus to offer.

"We do not think there is a strong surplus of anything in the West, while Plum and Cherry seem to be quite scarce. Weather conditions are favorable for handling nursery stock, but help is very scarce."

Salem, Ore., Oct. 20—Oregon Nursery Co.: "Regarding the season's business and the outlook for trade in general on the Pacific Coast, will say that so far as we can see at the present time the nursery business in our section is in a very healthy and thriving condition. We believe there has been an increased sale for nursery stock all along the line this season and that nearly every line will be short before the close of Spring sales.

"As for ourselves, our agents' retail trade at the close of sales, Saturday, October 3d, was 15% better than for the same date last year. We are now in the midst of our Fall shipments and it is early to make any general statement as to collections, but we feel they should be as good as last year at least, for all sections of the Pacific Coast have had good crops, and generally good prices.

"Of course there are small sections in the West that have been affected by drouth during the past season, in which money will not be as free, but speaking of the Pacific Coast generally, we do not think it was ever in better condition, or the outlook any better than at the present time. Our only trouble between this and the close of sales will be shortage of stock, and we believe all lines will be short before Spring."

WORTH MORE THAN A DOLLAR.

J. A. LOPEMAN, ENID, OKLA., Aug. 8, 1903.—"I herein enclose you \$1 in payment for your journal for another year. These dollars look big to me at this time of year, but not as big as the NATIONAL NURSERYMAN. It seems to have more real intrinsic value than the round dollar. It is all right."

American Elms in surplus offered by H. N. Hoffman, Elmira, N. Y. One million June budded Peach, two-year Apple, one-year Pear and Cherry, can be had at Chattanooga, Tenn., Nurseries.

AT SOUTHERN POINTS.**Heavy Orders in Maryland for Peach, Apple and Keiffer Pear—
Business Doubled in Kentucky—Tennessee Demand for Peach.**

Winchester, Tenn., Oct. 23—J. C. Hale:—In regard to the sales of nursery stock in this section, especially with me, will say that my trade has been up to the usual standard this year; and the nurserymen generally, here at Winchester, have had a very fine business this season. There seems to have been quite an increase in the supply of Peach trees in the South, over previous years; but the demand has been good, with prices ranging lower than last year. As usual, the trade on Peach runs largely on Elberta, but nurserymen everywhere seem to have anticipated this demand for Elberta. At this writing, so far as I am able to judge, there is a larger surplus of Elberta than any other variety.

"Several carloads of trees have been leaving Winchester daily for the last two weeks, but there seems to be a shortage in the supply of empty cars, and shippers are very much annoyed and delayed on this account.

"I had a stock of about three million Peach trees to offer the trade, a large per cent. of which has already been sold. The outlook for business another year is very favorable; however, there is going to be an increased supply on Peach in the Southern market another year."

Warsaw, Ky., Oct. 17—The Donaldson Co.:—"Our sales so far this Fall have been very encouraging. The amount we have not taken time to figure, but do know they are double last Fall's. Orders were a little slow in coming in the early part of the season, but when they commenced, they gave us more than we could do.

"All stock is moving off pretty well, with the exception of Apples, and Shrubs. Peach is moving slowly, but our stock of Peach is small, and will no doubt be used up pretty well before the close of our Fall's trade.

"Some kinds of forest tree seedlings are moving slow, but as we are growing this season about four million seedlings, can expect to have a surplus of some kinds.

"We are planting light this Fall of Peach seed, and are going to cut our plantings some in nearly all lines in the Spring. Forest tree seedlings another year we believe will be very scarce, owing to the almost total failure throughout the country of the seed crop.

"We hardly know what the outcome for the future will be, but are expecting a large surplus of some lines of stock for another year, and predict lower prices. We trust, however, that the nurserymen will enjoy as good a demand for stock in the next few years as they have in the past. We feel that we have had our share of the business."

Berlin, Md., Oct. 21—J. G. Harrison & Sons:—"Our Fall trade has started in good shape and we are receiving heavy orders for Peach, Apple and Keiffer Pear trees. Our stock has ripened up at least a month earlier than usual, and it is in most excellent condition to handle. At this season we are getting out orders on time, which is a great satisfaction to our customers as well as ourselves.

"We look for a better price on Peach, Apple and Keiffer Pear trees, basing our views on the fact that green apples are selling much higher than they were thirty days ago, the export trade having used up the surplus of the country, and we look for a high price on apples before Spring. Keiffer Pears that were selling 10 to 15 cents per basket then are now selling 25 to 30 cents each at the canneries, and it is agreed upon that big money can be made in growing Pears at either of the above prices. In localities where it was not so wet that the fruit rotted on the trees there is where they are getting fancy prices and making a success."

"The fruit grower who has given special attention to the selection of his trees before planting and to the cultivation of the orchard is making a great success. There is quite a decided change in the minds of the fruit growers who can not stand the expense of fighting the insects, hence the large growers that have enough vim and are willing to stand up to the bad season as well as the good are the ones that are making the wonderful stride at this time."

JAMES McHUTCHISON.

James McHutchison was born 1873, in the city of Ballarat, Victoria, Australia, a city built upon the site of original Gold Fields. He was educated in the public schools of Ballarat and Melbourne, later taking a course at college in botany, plant physiology, etc.

He served four years with Paton & Sons, Melbourne, then the leading nurserymen and florists, devoting a proportionate time to the nursery, florist and seed branches of this business.

After traveling extensively in Australia, he went to Tasmania and later to New Zealand, where he stayed two and a half years, confining himself to the nursery and florist business at Dunedin, Christ-Church, Wellington, Wanganui and Auckland.

To enlarge his horticultural and general education he decided to travel around the world and after an absence of two years returned to New Zealand to settle down, so returned to Australia, visiting Sydney, Melbourne, Adelaide, etc., thence via India, Egypt and Italy to Germany. He spent eight months at florist establishment of Thomas Rochford, near London, the largest greenhouse establishment in the world, and later traveled through the nursery sections of Holland, Belgium, Germany and France.

He came to the United States in March, 1896, and a little later entered the employ of August Rhotert of New York as traveling representative, in which capacity he became acquainted with leading American nurserymen, seedsmen and florists.

In July, 1902, Mr. McHutchison associated himself with Daniel W. Wittpenn, a young man of 24 with exceptional promise, "who also was employed for three years by same firm," and commenced business for own account under firm name of McHutchison & Co., as sole American representatives of the following European firms:

Arthur DeMeyer, Ghent, Belgium, wholesale grower and exporter of Palms, Azaleas, Bay Trees, etc.

H. W. Van Der Bom & Co., Oudenbosch, Holland, extensive nurseries of large evergreens, transplanted nursery stock, seedlings, etc.

Ernest Riemschneider (Altona-Hamburg), Germany, wholesale grower and exporter of Lily of the Valley pips.

Vincent Lebreton, LaPyramide, Angers, France, wholesale grower and exporter of French fruit and ornamental seedlings.

Schaum & VanTol, Boskoop, Holland, growers of Roses, Clematis, Rhododendrons, etc.

Damman & Co., San Giovanni Teduccio, near Naples, Italy, growers and exporters of vegetable and flower seeds, etc.

In addition this firm makes large direct importations of Raffia Tree seeds, Japanese and English nursery stock, etc.

Mr. McHutchison is vice-president of the American Gardening Company, of New York, Mr. Wittpenn being its treasurer, C. L. Yates of Rochester, N. Y., president, and Thomas B. Meehan of Germantown, Pa., secretary and business manager.

Mr. McHutchison continues traveling among the florists and nurserymen and goes to Europe each Summer to keep in touch with European prices and sources of supply, while upon Mr. Wittpenn devolves the management of the office and financial affairs and with his knowledge of custom house and brokerage business and French and German languages he is admirably equipped.

VIRGINIA LAW SCORED.

**K. Morton, of Richmond, State Vice-President of the American Association, Actively at Work in His Own State—
Example for Others.**

State Vice-President K. Morton of the American Association of Nurserymen, manager of the Virginia branch at Richmond of the Knoxville Nursery Co., writes as follows to the Richmond Times-Dispatch:

Sir.—Your correspondent in Sunday's Times-Dispatch, from Morrisville, Va., gives us some interesting history concerning fruit growing and some facts as to its great profit, all of which is very true, for there is nothing which gives a man more real happiness and greater profit than fruit growing. But it is not to enlarge on this part of his most interesting letter, but to thank him for being, as far as I know, the first man to attack in print, that iniquitous, and abominable so-called "law" passed by the last session of Legislature, and known as chapter 207 in acts of Assembly. He strikes the keynote when he says that "there is not such an unjust and unfair law to be found on the statute books of any other State in the Union."

SHOULD GET RID OF IT.

And the people of Fauquier county, who express themselves so clearly against this law should act and help to get rid of it, as we should easily be able to do in November; get after your legislators and let them know that you are watching them, for this law was passed without any attention having been given it save by those interested in its passage, and who they were nobody can find out. For the law, as passed, is positively and entirely different from a law that was framed and endorsed by the Horticultural Society of Virginia at its last annual meeting. The wool was pulled over the eyes of the too confiding nurserymen who had endorsed an entirely different law, and this final monstrosity railroaded through and sprung like a trap upon nurserymen, who are a retiring, modest, painstaking, law-abiding people, doing more good than all the politicians that ever existed from the beginning of the world up to the present day, who have stood aside and allowed laws to be made controlling their business, without a protest, laws which treat nurserymen as if they were felons, when, in fact, they are the most lawabiding citizens.

The nursery business occupies a peculiar position in commerce. While we conduct our business pretty much along the lines of other business, we have enormous expenses and cannot take our goods down from shelves and show them as merchants do. Yet no nurseryman would let his stock become infested with San Jose scale or other pests, for if he did he could not do business either in his own State or outside.

Now, the State of Virginia wants luxuries, and can afford to pay for them, and if it wants entomologists, let us have them, but do not make laws giving them the power of a Czar and allow them to dictate and rough-ride over law-abiding citizens.

MAKE ENTOMOLOGISTS SUBORDINATE.

Make them subordinates to good and proper responsible authority. The United States Government has its entomological department under control of the Secretary of Agriculture; we have a most capable Agricultural Department, under control of a commissioner, who has made his department an example and a byword of excellence throughout the United States, who as a native Virginian takes pride in his State and its welfare and does all he can to bring good citizens and capital into our State. Put this department of nursery and orchard inspection under charge of his department; make the entomologists subordinate to him; give him funds to operate this department; get rid of experimental

stations located in the wilds of the mountains, where experiments have to be made all the time, and where no criterion can be obtained; utilize our State farm in this direction and better still accept the proposition of nurserymen who are willing to furnish trees in various sections of the State, gratis, for experimental orchards, to responsible parties who will plant and care for them and report on same. Why the \$20 was assessed against nurserymen in Virginia, I do not know. That was another attack on a business already full of expenses and burdened to its utmost, as the bill also carries an appropriation of \$6,000 annually to pay for inspecting and cleaning orchards. Nurserymen are willing to pay so much per diem to have their nurseries inspected, if this is necessary, though, as I have before said, they know better how to keep their stock clean than they can be told.

ORCHARDS NEED THE POLICING.

It is not the nurserymen who need or require this "policing," as it was called by one who favored the bill, but the orchards all over the State should be carefully inspected and pests of all kinds treated and obliterated, for no matter how nice and how clean, how pure and how fine, the trees a nurseryman may send you, these young trees planted near an old infested orchard will soon themselves become infested. Therefore, it is necessary that the orchardist inform himself how to fight "bugs" and "hum-bugs," too, and to keep his trees clean. If the planter gives the same attention to spraying and caring for his orchard that a nurseryman gives to his stock, there will be no pests to bother any of us. In this way, together, we will get rid of all known pests and we can then have time to watch for new discoveries and keep them away.

Now, while this \$20 assessment is unreasonable, if you wake up like all of us have to do now and teach your representative how to vote, there will only be the \$20 you will have to pay out this year, and if this wakes you up and gets you in the line of progress that exists outside of Virginia in the nursery world, it will be money well spent, for "the American Association of Nurserymen," the largest commercial organization in the United States, wants you to come out of your shell and join with it in forwarding our mutual interests. Not one of those sixty odd nurseries in Virginia was represented at Detroit last June, while the State of Tennessee had ten or twelve representatives. Turn out another year and meet the Association at Atlanta, Ga., and learn something about the cost

of a tree. For it is not the \$20 license that will hurt your business half so much as your selling below cost of production.



JAMES McHUTCHISON.

Obituary

Clark R. Powell, Sterling, Ill., died on October 17th. He was born in Saratoga county, N. Y., Sept 12, 1826. He went to Illinois in 1849 and in 1850 engaged in the nursery business. At the time of his death he owned 80 acres.

Edward L. Hallowell, treasurer of the Shady Hill Nursery Co., Boston, died September 19th, aged 42.

Benjamin N. Jerome, New London, Conn., died recently in New York city, aged 68 years. He succeeded to the nursery business established by his father twenty years ago.

Charles Dawson, son of Jackson Dawson, of Arnold Arboretum, died recently. He had been operating a nursery for rare hardy trees and shrubs.

William T. Terrell, proprietor of the Bloomfield Nursery, Bloomfield, Ind., died recently aged 51 years.

Dr. Joseph Stayman, originator of the Stayman Apple and Stayman Strawberry, died at Leavenworth, Kan., October 6, aged 86 years.

Z. K. Jewett, of Sparta, Wis., died at Rochester, Minn., September 11th. He was born at Aurora, Ohio. A widow, a son and two daughters survive.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., NOVEMBER, 1903.

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Committee on Cost of Growing Trees—Wilson J. Peters, Troy, O.; W. F. Heikes, Huntsville, Ala.; Theodore Smith, Geneva, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.
NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.
EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, A. L. Brooke, N. Topeka, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.
SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.
SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.
PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Organized at Portland, Ore., January, 1903.

LEGISLATIVE COMMITTEE'S RECOMMENDATION.

We wish to say, supplementing the report made by the legislative committee of the American Association of Nurserymen last month in relation to the Michigan inspection law, that the committee overlooked one provision of the law, requiring the filing of a list of customers with the state inspector when demanded by him. While there may be some doubt as to the legality of this proposition it seems an easy one to comply with. The committee advises members of the Association to comply with this request when made and has informed the Michigan inspector that it would take this action.

CONNECTICUT FUMIGATION LAW.

Chairman William Pitkin, of the committee on legislation of the American Association of Nurserymen, in the last issue of the NATIONAL NURSERYMAN, made a report on an investigation by members of the committee regarding the legality of certain state legislation affecting shipments of nursery stock. He suggested that if the expense of inspection in the case of nursery stock shipped into Connecticut should be deducted from the consignor's bill, he may bring suit against the consignee for the full amount of the invoice, as the statute requiring fumigation only in the case of stock going into the State of Connecticut is unconstitutional as an attempt at regulating interstate commerce.

Prof. W. E. Britton, state entomologist of Connecticut writes to the NATIONAL NURSERYMAN, as follows:

The Connecticut law states that all nursery stock shipped into the state shall bear a statement that it has been fumigated—in addition to the certificate of inspection. The law does not state just what shall constitute nursery stock. If I am forced to decide upon the matter, I shall not rule that the law applies to ordinary florist's stock. Some of our florists on sending stock into New York and other states have been considerably bothered by having ferns, palms and other greenhouse plants held up; because not accompanied by a certificate. I think that finally it will be necessary to have it clearly understood, in all of the states, what constitutes nursery stock, in distinction from greenhouse plants; and the nature of the contents printed or stamped on the outside for the benefit of transportation companies handling the goods.

A NOVEL CATALOGUE.

We presume the very attractive and interesting paper-bound-book of 56 pages, entitled "Hardy Plants of Rare Quality," labeled "Fall 1903, edition number thirty-seven" and issued by Thomas Meehan & Sons, Inc. Germantown, Pa., would be called a nursery catalogue. It is so novel in design and so meritorious in execution, however, as to rank far above the accepted style of nursery catalogue and to deserve rather the appellation of "A Guide to Ornamental Horticulture."

This firm has taken a distinct step in advance of any other in the production of a catalogue of their nursery stock. There have been some marked advances in nursery catalogue styles during the last five years and it required a decided innovation at this time to attract special notice.

The catalogue feature has been cleverly concealed amid a large amount of general and special information of real value

regarding ornamental horticulture and its treatment, which is represented by these headings of the divisions of the subject: "Advantages of Fall Planting," "The Plant Buyer's Profit," "Practical Suggestions for Artistically Ornamenting Home Grounds," "The Way to Improve Your Property," "Useful Books," "Hints on Tree Planting and Pruning," "Value of Hardy Herbaceous Perennials," "Brightening Up Shrubbery Borders," "Arrangement of Hardy Flowers," "Selections for Special Purposes," Cover spaces are utilized artistically with reference to Paeonies, Evergreen Azaleas, and Ornamental Oaks. The book is illustrated with striking and appropriate original half-tone engravings and with full page engravings of a wood scene and a lawn decoration showing arrangement of stock specifically described.

Altogether this production represents the height of the art of catalogue making in a year of marked advance in this line of work.

A STUDY OF THE HONEYSUCKLE.

The fourteenth annual report for 1903 of the Missouri Botanical Garden has been issued by the director, Dr. William Trelease. As usual it contains a considerable amount of information of special interest to the botanist and a report on the condition of the society. It contains a review of the genus *Lonicera*, the first in more than 70 years, by Alfred Rehder, who was actively engaged with Prof. Bailey in the production of the *Cyclopedia of American Horticulture*, quite the most elaborate work of the prolific brain of the dean of the New York State Agricultural College. Since the last review of this genus, by A. P. DeCandolle, the 42 recognized species have been more than tripled in number, chiefly from discoveries made in Central and Eastern Asia, so that now there are known more than 150 well-distinguished species.

Mr. Rehder, who is a specialist in hardy shrubs and vines, devotes ten columns in the *cyclopedia* above named to the Honeysuckle, giving brief descriptions of varieties. Nurserymen with others are indebted to such men for the special study devoted to species and recorded for perpetual reference. We believe that not enough appreciation of such work is expressed by those who will profit by such arduous and painstaking investigation.

NEW YORK PARKS.

New York has in the Borough of Manhattan public parks covering an area of 1,415 acres, in Richmond 2 $\frac{3}{4}$ acres, in Brooklyn 1,026 acres, in Queens 550 acres, and in the Bronx 3,866 acres, a total of about 6,862 $\frac{1}{4}$ acres. In the Boroughs of Manhattan, Brooklyn, Queens and the Bronx there are 321,561 feet of parkways, streets, avenues, etc., under the jurisdiction of the department. The playground for coming generations in the Bronx is made up principally of Bronx Park, 661 acres, against Central Park's 843 acres, Pelham Bay Park, 1,756 acres, and Van Cortlandt Park, 1,132 acres.

VERY VALUABLE IN MANY WAYS.

AMERICAN NURSERY Co., Kalamazoo, Mich., June 1, 1903.—"We enclose draft to your order for \$1.00, in payment of our subscription for another year. We have found your publication very valuable in many ways and do not wish to be without it."

THE LOWER SOUTH.

Much Attention Given to Budded Pecans—Trade Heavy—Florida's Advantages in Special Lines—Cuban Demand for Citrus Trees.

Jacksonville, Fla., Oct. 22 Griffing Brothers Co.:—"In the Lower South as a whole more attention is being given to budded Pecans than to any other one thing; leading nurserymen are making no effort to sell seedlings, believing that there is as much advantage in budded Pecans over seedlings as there is in budded Peach, Apple or Pear over seedlings. We have over 25,000 budded Pecans at our Macclenny nursery and find both wholesale and retail trade for them very lively, are supplying over 5,000 for one grove over which we are interested in.

"Business is especially good in the Texas and Louisiana section where North Florida grown trees of all classes seem to give better satisfaction than those from further north or even the home grown. The gray pine land with red clay subsoil, such as used for nursery purposes here, produces handsome trees and the best root system possible.

"Trade in special lines with nurserymen is increasing yearly and we believe it is because this is the best section of the United States for growing Japan Persimmons, Figs, Mulberries, Muscadine Grapes, Pecans, Japan Walnuts, Japan Chestnuts, Pomegranates, Texas Umbrella and Amoor River Privet, all of which we are making a specialty of for the trade and there is no better section for producing perfect Peach, Plum, Pear, Roses, Conifers and shade trees. With the long growing seasons we can produce a brighter and handsomer tree of salable size in a year's less time than the same size trees can be produced in the North, making it profitable to compete with other sections in these lines.

"For a number of years we have supplied several large dealers, operating in Georgia, Alabama, Mississippi and Louisiana, who have established a reputation and are doing an increasing business in the same territory every year. This is the only way to reach a certain class of small farmers and when they are supplied good stock they appreciate it and are pleased to give their orders to the same men every season. These dealers have done more business this year than usual, making it necessary to employ a large packing force several weeks on these orders alone.

"The supply of stock for Winter and Spring business is fairly good in June Bud Peach of such varieties as Elberta, Carmen, Slappy, etc., but rather shy in Florida varieties; there is also a good supply of large siza Kieffer Pear, Japan Persimmon and Budded Pecans and in all grades of Muscadine and Trellis grapes Roses, Amoor River Privet and Texas Umbrellas.

"The principal shortage is on Plums, LeConte and Garber Pear, Mulberries and Walnuts. Citrus trees are in good supply and demand.

"The raising of Orange, Grape Fruit and other Citrus trees is fully half of our business and we are now planting the most of this class at our South Florida branches and in Cuba, where Orange planting might be said to be on a boom. There is no doubt a great future for Citrus fruits in Cuba, as they grow beautifully and produce well. Much American capital is being invested there in this line; we are planting and developing a grove of one thousand acres for a Chicago company, besides supplying trees for many other large and small groves. Our Mr. D. W. Griffing is located at Bahia Honda, Cuba, in charge of this one thousand acre plantation and a nursery of several hundred thousand trees. Altogether the nursery business in the South is flourishing."

Ex-president Edgar Sanders, Chicago, of the American Association of Nurserymen, celebrated his 76th birthday on October 10th.

The Davis County Nurseries, Utah Nursery Company and Pioneer Nurseries Company of Salt Lake City, Utah, are credited by the News of that city, with doing much to encourage the development of orchards and woodlands in the region. All the firms have many patrons, the first named sending traveling men from California to Illinois.

THE CENTRAL STATES.

Slow in Starting, Stock Finally Moved Briskly—Many Commercial Lines Short—Heavy Winter Sale Anticipated—May Curtail Planting.

Xenia, Ohio, Oct. 16—McNary & Gaines:—"The Fall business thus far is a repetition of last Fall's experience. The season opened up sluggishly, but gradually increased until at this writing stock is moving quite lively. Present indications point to a shortage in Cherry and Plum, and possibly Apple. Many commercial kinds are already short. Other lines are somewhat easier, but with good sales. The prospect for Spring trade is decidedly good.

"We are not informed as to the proposed Spring planting. In Apple it will doubtless be governed largely by the number of apple seedlings that may be available."

Shenandoah, Iowa, Oct. 19—E. S. Welch:—"Nurserymen here have had a large fall trade. Our Fall season's sales are better than we anticipated and will exceed by 50% last Fall's business, which was good. Have had a good trade on Apple, Plum, Cherry, Small Fruits, Forest Tree Seedlings, Ornamentals—in fact a good demand for most all kinds of stock.

"The supply of Plum appears to be limited. There may be a surplus of Peach in some sections. I do not think there will be much surplus in other lines. My judgment is that most lines of nursery stock will be cleaned up closely by the time next Spring's trade is over, especially if conditions are favorable during the Fall and Winter for road work.

"I do not think planting in this section will be increased any. Some lines will be reduced."

Vincennes, Ind., Oct. 24—W. C. Reed:—"We are enjoying a very heavy trade and are hardly far enough along to say how it will compare with last year. Do not think it will be quite as heavy with the planters' trade, although about the same in the wholesale trade. The demand for Cherry is very heavy, especially one-year, having booked order from Oregon to Virginia for same. Apple seems to be in very good demand, especially for Jonathan, Grimes and Wine-sap. Peach are moving much better than expected and do not think there will be any surplus in this section by the time Spring packing is over. The demand for Japan Plum and Keiffer Pear is not quite up to last year. Small fruits seem to be getting very scarce. Have sold double the amount of Currants and Gooseberries we usually do.

"I see no reason why there will not be a very heavy sale this Winter and think there will be some things that will be very scarce. With the short crop of Seedlings and poor stands of grafts, I see nothing but high prices ahead for some time on Apple and Cherry.

"We have had more wet weather than usual this Fall and this has put us behind some with digging and had it not been for our new packing house do not see how we would have got along, as we have had to work quite a good deal at night.

"Stock is ripening up nicely for Winter and think every thing will be in very good shape to stand the cold. Have a splendid stand of buds of all kinds as far as we can tell; but most young stock has not made the usual growth, owing to the cool Summer."

CALIMYRNA EQUAL TO IMPORTED FIG.

Of special interest to nurserymen in California and the South is the success attending the culture of the Smyrna fig by George C. Roeding at the Fancher Creek Nurseries, Fresno, Cal. We have referred to some extent in our issue of September, 1901, to the peculiar features of the culture of the fig. Mr. Roeding has been to Asia Minor to study the growth of the famous Smyrna fig. His account of his investigations and their application, resulting in the Calimyrna fig—a name formed by combining California and Smyrna—is given in his book entitled "The Smyrna Fig at Home and Abroad," reference to which is made in another column. Samples of this fig received last month prove that it is equal to the imported fig from Asia Minor and it is put up in cartons in much cleaner manner.

Among Growers and Dealers.

Stark Brothers' packing houses at Louisiana, Mo., are equipped with electric light.

The Callanan Nurseries, Eau Claire, Mich., have been incorporated with a capital stock of \$5,000.

The Jacksonville, Fla., Times-Union states that 2,500 acres will be planted to Pecan trees the coming winter and spring.

August Rolker, of Rolker & Sons, New York City, called upon Western New York nurserymen on his way west, October 24th.

Dr. B. C. Fernald, nursery inspector for Massachusetts, reports nursery stock much freer from insect pests than one year ago.

J. H. Hale, South Glastonbury, Conn., will demand pay from the state for damages caused by deer that feed on the tops of his young apple trees.

Frank H. Hartman, of Dansville, N. Y., and Miss Hortense Pauline Armstrong were married on October 1, at the home of the bride's parents in Allenhurst, N. J.

The Stark Brothers Nursery and Orchard Company, of Louisiana, Mo. have been incorporated in Illinois to do a general nursery business; capital in Illinois \$2,500.

Park Commissioner Young of Brooklyn, N. Y., has purchased 2,000 trees in various sections of the country to be set out along Fourth Avenue and parks in that borough.

A Doylestown, Pa., paper states that 14,000 panes of glass in the greenhouses of Hoopes, Bro. & Thomas were broken by hail recently. The Achelis houses were also damaged.

Mr. Peterson, who for some time has been foreman for Bobbink & Atkins, Rutherford, N. J., will have charge of the nursery department of Clucas & Boddington, Sparkill, N. Y.

Prof. C. S. Sargent, of the Arnold Arboretum, who is making a tour of the world, was last heard from at Moscow. He will return in December via Hong Kong, East Indies and San Francisco.

Rochester nurserymen will do most of the work of decorating the grounds around the New York State building at the St. Louis Exposition, for which an appropriation of \$1,000 has been made.

Georgia nurserymen generally have pretty well sold their peach stock. The number of trees that will be planted this winter in Georgia, says a well-known horticulturalist, will reach upwards of three millions.

The Palace of Horticulture at the World's Fair is almost finished. In this handsome building little else than fruits and flowers will find place. The Palace of Horticulture is surrounded by beautiful gardens, showing the choicest collections of outdoor plants and flowers.

New citrus fruit will begin to move east November 1, says the Los Angeles Express, and the traffic departments of the transcontinental lines are preparing for a season that will surpass any of its predecessors. Conservative estimates place the number of cars that will go forward at 30,000, and of this number 2,000 cars will be lemons.

Samples of the Stark-Star grape were received by us last month from the introducers, Stark Bros., Louisiana, Mo. This grape has a fine appearance and is apparently a marvel of productiveness. It should be an excellent shipper, because of its firmness. To our mind its qualities are especially adapted for wine-making, and for that purpose in particular it should prove of much value.

The first annual meeting of the Thomas Meehan Horticultural Society, composed of members of the firm, the heads of the various departments and other connected therewith, was held last month at Germantown, Pa. After a business meeting a banquet was held. The officers are: President, Ernest Hemming; vice-president, R. Bebler; secretary-treasurer, Warren J. Chandler. Horticultural subjects of general interest are discussed by the society.

"Perhaps," say Thomas Meehan & Sons, Inc., "during the season of 1904-5, if our stock is large enough to warrant it, we will introduce one of the greatest novelties the horticultural world has ever seen. We have been working on it about four years, perfecting this new race. For a while yet we prefer to say little of the wonderful plant for brightening up the dull end of summer, as orders from persons who managed to see the plant in flower would already take all our available stock."

IN VIRGINIA.

**Farmers Replacing Tobacco and Field Crops With Fine Orchards—
Sales Fell Off Some—Planting Curtailed—
Peach Seed Plenty.**

Richmond, Va., Oct. 19—Knoxville Nursery Co.: "I am glad to say that sales have been good with us this season and that the farmers of Virginia and near-by states are beginning to realize the fact that fruit growing pays, and the land formerly given to tobacco and other field crops is being developed into fine orchards; and, better still, these planters are giving their trees good care and attention, hence with these conditions before us I can see nothing but a most favorable view for the nursery business, which in my opinion is yet in its infancy. The people are 'getting next' and want what pays the most, which at present proves to be fruit growing."

Richmond, Va., Oct. 22—W. T. Hood & Co.:—"Our sales for the past season has not been as large as usual, our sales through agents being about one-fifth less than they were Fall of 1902, the latter year being the best we have ever had. While our expenses for labor were higher, our collections were much better.

"Our planting in Spring of 1902 was not large, and the season not being good, we did not expect a large stock this Fall, especially of Apple, and we have sold very close on most everything in the fruit line.

"There is no other nursery growing stock at Richmond, and we do not think there is a very heavy stock in this state, nor do we think the planting was very large last Spring.

"We have leased a very fine farm 18 miles from Richmond, and the most of our planting was done there. We had a very wet April, which made our planting late, and we did not plant as much as we expected, especially in Peach, the seed of the latter having spoiled in the beds. After planting, the season was very dry; but our stock has all done well, especially Apple.

"We do not know whether we will plant heavy next Spring or not, as stocks are so scarce and high. We have bedded between 300 or 400 bushels of small Peach seed, and if we can get them planted early in the Spring, they will make as many as we will want.

"While Natural Peach seed were supposed to be scarce, we think the high prices offered for them early in the season, caused them to be saved, and we think most every one secured as many as they wanted or more. We secured upwards of 1,600 bushels to date, and still have some coming in which we contracted for. We have refused more than 1,000 bushels, as there was no demand for them now and we did not wish to carry them over until next season.

"We have not as yet commenced our Fall shipments, but hope to begin the first of next week, provided we can get our shorts in by that time, as we are having some trouble along that line owing to certain features in our Virginia inspection laws, which we will try to have amended this Winter."

Grape vines are a specialty with Stark Bros., Portland, N. Y., and Louisiana, Mo.

A list of special surplus stock is announced in another column by Jackson & Perkins Co., Newark, N. Y.

North Carolina Natural Peach pits, crop of 1903, are offered by J. Van Lindley Nursery Co., Pomona, N. C.

Japanese specialties are offered by the well-known importers, Suzuki & Iida, 31 Barclay St., New York city. See announcement in another column.

A complete assortment of Apple, Cherry, Pear, Plum, Peach, Apricot, Forest Tree Seedlings and Apple scions is offered by F. H. Stannard & Co., Ottawa, Kan.

Jackson & Perkins Co., Newark, N. Y., are sole agents in the United States for Charles Detriche, Sr., Angers, France, grower and exporter of fruit tree stocks forest trees and ornamentals

Self-oiling ventilating apparatus, for greenhouses and commercial buildings is easy to operate and it provides the right amount of ventilation. It is manufactured by Lord & Burnham Co., Irvington-on-Hudson, N. Y.

Recent Publications.

Handsome catalogues have been issued by G. L. Taber, Glen St. Mary, Fla., and Harlan P. Kelsey, Boston, Mass.

The year book and record of the seventh annual meeting of the American Park and Outdoor Art Association has been issued by the secretary, Charles M. Robinson, Rochester, N. Y. It contains much matter of interest to those who favor municipal improvement.

One of the most comprehensive of foreign catalogues is that of B. Muellerklein, of Karlstadt, Bavaria, Germany, who has large cultures in Currants and Gooseberries. He has also a full line of fruit and ornamental stock. The catalogue is a credit to this well-known German nursery.

Last season, 1902, was one prolific in apple troubles. Frost blister spray injury, scab, pink rot and the ordinary rots all proved too well-known sources of loss to growers and buyers. In Bulletin 235 of the Station at Geneva we are told that two other new, or unusual, rots developed late in the season. These are (1) a rot very similar to pink rot, and (2) a core rot of Baldwins.

In the November issue, The Delineator sustains its recognized position as the foremost fashion publication and one of the high-class literary magazines. The arrangement of flowers in Japan is not haphazard, says one of the writers, but everything about it is determined by laws. There are several styles of arrangement, each style having a name, and this is a regularly taught branch of learning. Vases in which to put the flowers or twigs are of infinite variety, and harmony between the vase and the flower is one of the first conditions to be observed. There is a flower for each month and for each circumstance, happy or otherwise.

"Country Life in America" for November contains an article by Prof. Bailey on "How to Make a Living Out of Doors," and articles on "California Bulbs," "Winter Window Garden" and "Cold Frames and How to Use Them." The rich and striking contents of the November World's Work, covering a variety of timely and vital subjects, more than ever emphasizes its title as the magazine of achievement. The editorial portraits include Joseph Chamberlain, John Hays Hammond, Mayor Seth Low, Charles Francis Murphy and Dr. John Huston Finley. The departments of the March of Events, Some Recent Books and Among the World's Workers maintain the usual high standard of the magazine.

As the years increase The Youth's Companion endeavors to keep pace with them in all that is wise, beautiful and progressive, and not only to retain but to deserve the honorable and exceptionally high place it holds in the confidence and affection of three generations of readers. The greatest living authors in all branches of literature continue to contribute to it. The annual announcement number of The Companion, describing the principal features of The Companion's new volume, will be sent to any address, free. The new subscriber for 1904 will receive all the issues of The Companion for the remaining weeks of 1903 free from the time of subscription; also The Companion Calendar for 1904, lithographed in twelve colors and gold. Boston: THE YOUTH'S COMPANION.

J. Wragg & Sons Co., Waukegan, Ill., have succeeded admirably in their endeavor to produce an up-to-date catalogue. It contains much valuable information pertaining to horticulture and pomology for the Central and Northwest States. This firm has spared no pains in describing fruits and has gone to much expense in photographing specimens of both fruits and trees on its grounds. Honest descriptions, both as to quality of fruit and hardiness of tree, have been given. This firm has one of the best locations for the growing and shipping of nursery stock in the West. It is but a few miles from Des Moines and at the junction of three railroads. One of the Iowa experiment stations is on these grounds and M. J. Wragg is the director. There is much more, both of description and illustration in this catalogue than in many others; all the matter is arranged systematically and an index makes easy reference to any of the subjects treated. Indeed, this catalogue is a valuable little book of reference regarding the varieties suited to the section of the country for which it is intended. The cover is an attractive work in photographic brown, showing the Wragg Cherry, the Iowa Raspberry, the Stoddard Plum and the medal awarded to the firm at the Trans-Mississippi Exposition.

STARK BROTHERS' WORLD'S FAIR FRUITS.

Probably no concern in the nursery business has so thoroughly demonstrated the value of publicity as has the Stark Bros. Nurseries and Orchards Co., Louisiana, Mo. Persistent and varied advertising on a very large scale has made Stark Bros. a household name in a comparatively short time.

The latest feature of this firm's publicity enterprise is a 48-page book, 9x12 inches in size, descriptive of their World's Fair fruits. Twenty-two lithographed pages in colors are alternated with twenty-two pages of text and half-tone engravings. The lithographs portray vividly the many varieties of fruits grown by this company; the half-tones show the immense extent of their grounds and buildings; their offices, 60x102 feet, five great packing houses, a grafting house, blacksmith and wood-making shops, etc. Scenes in nursery rows and in orchards are also shown. The book is a graphic presentation of views of an enormous industry, speaking plainer than words of a success based upon constant activity, good judgment, expert knowledge and universal fair dealing. All who visit the World's Fair at St. Louis next year will hear much of Stark Bros. and what they have done to develop the fruit industry. They have branches at Starkdale, Mo.; Atlantic, Ia.; Huntsville, Ala.; Fayetteville, Ark.; Dansville, N. Y.; Portland, N. Y. The catalogue is the product of the Rochester Lithographing Co., Rochester, N. Y. An edition of 100,000 is being printed.

Although only one and a half years in business, MeHutehison & Co., of New York, shows very rapid progress, a recent shipment on one steamer from Holland being 423 cases of nursery stock.

WANTED

Position as Bookkeeper and General Office Man. Have had ten years' experience and know varieties and grades. Can give reference.

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CHESTNUTS

Am. Sweet and Spanish 8000. Very fine 1yr. transplants mostly well branched. Fine roots. 4 to 6 feet, 3 to 4 feet, 2 to 3 feet.

Dormant Buds of Combale, Paragon, Dager, Numbo, Ridgely Alpha Coe. Killen, Kent and McFarland.

On strong, transplanted stocks. Can dig fresh and ship promptly any time after November 1st. We also have a good stock of Budded and Grafted **Pecans, Chestnuts, Chinquepins, etc.**

Write for my special prices.

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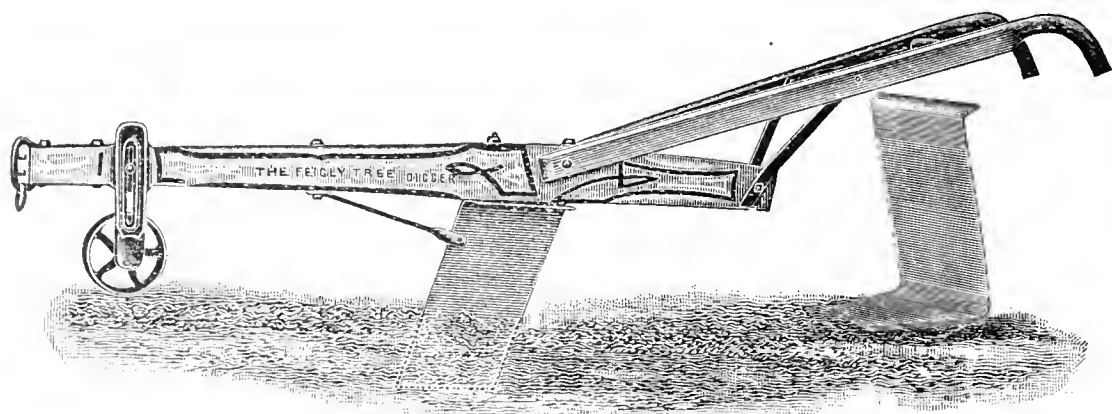
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W E O F F E R

1,000,000 June Bud Peach, large stock 2-yr. Apple, 1-yr. Pear and Cherry. Southern Mountain Natural Peach Seed and Western grown Apple Seedlings. Before placing your order write us; we can save you money.

CHATTANOOGA NURSERIES, Chattanooga, Tenn.

SURPLUS

AMERICAN ELMS
1 inch to 3 inch caliper.

PIN OAK
8 feet high.

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OFFERS FOR FALL 1903 AND SPRING 1904

California Privet, fine stock 1 and 2 yr. old; Japan Plums; Apricots on Apricot; Sugar Maples and American Elms; Small NATURAL PEACH PITS, Crop 1903; and General line of Nursery Stock.

PRICES ON APPLICATION.

We will be short on some varieties of Apples, Std. Pears and small sized Peach for Fall delivery, and would be pleased to receive quotations on same.

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
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Correspondence Solicited.

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KENTIAS, PHOENIX, LATANIAS, PANDANUS and
OTHER GOOD SORTS.

ORANGES, KUM KWATS, LEMONS, and LIMES
Fine shapely plants. Grafted on Trifoliata stock.

CHERRIES, 5 ft. and 4 1/2 ft.

PLUMS—Abundance, RED NAGATE and other standard sorts.

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HEDGE PLANTS—Thirty acres planted in AMOOR
RIVER PRIVET. The best evergreen hedge plant.

500,000 CITRUS TRIFOLIATA. (Hardy Lemon.)

BIOTA AUREA NANA in immense quantities.
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We have the largest stock of ornamentals ever grown in the
south. Can supply same in carload lots. No Scale. No Disease.

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FRUITLAND NURSERIES,

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Over 400 Acres in Nursery.

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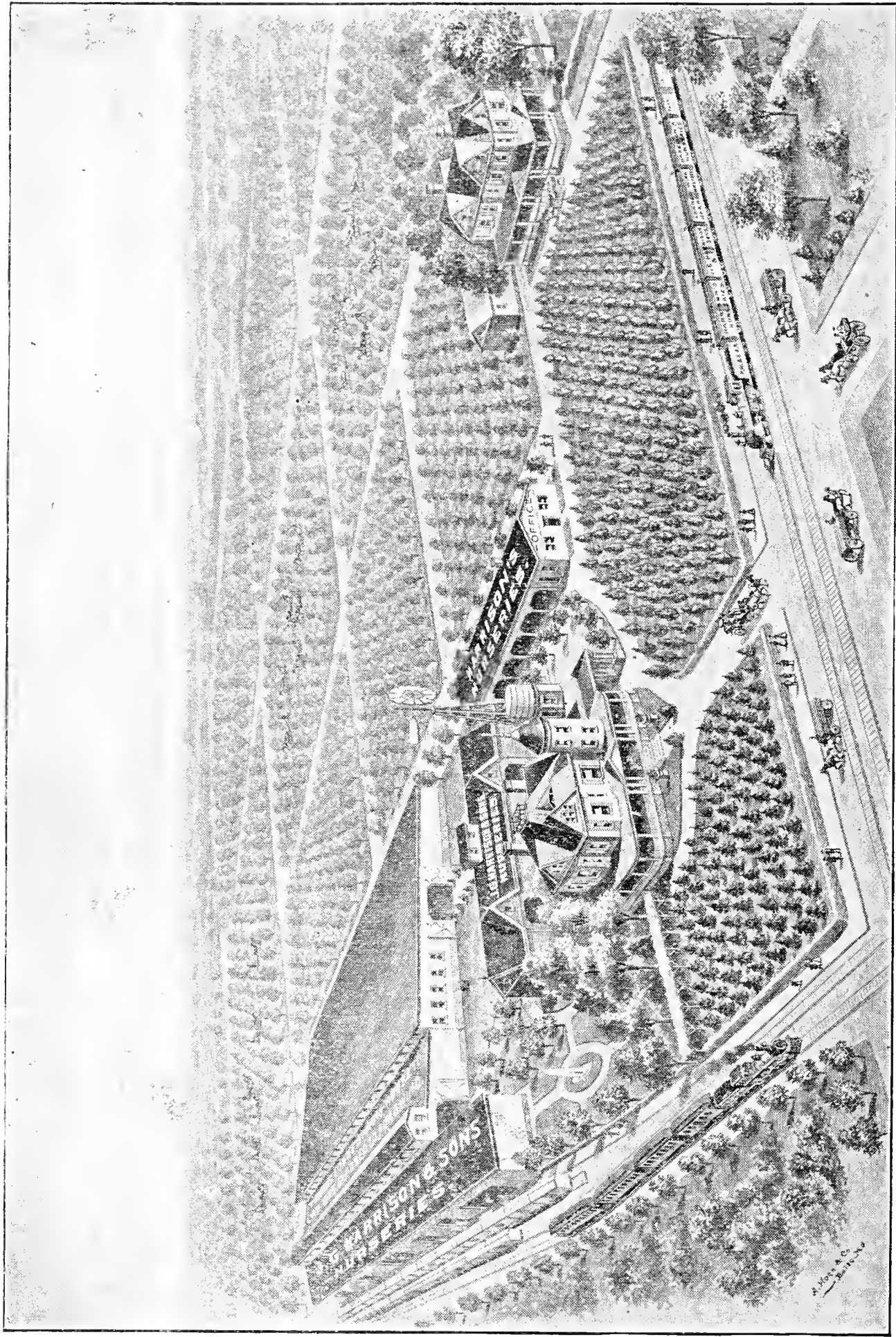
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The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"Have you tongue-grafted apples to any bill of fare?"—Rural New Yorker.

Vol. XI.

ROCHESTER, N. Y., DECEMBER, 1903.

No. 12.

APPLE GROWERS' CONGRESS

**Regulations on Grades of Fruit and Size of Packages—To Give
Away 100,000 Apples—Committees on Awards.
—Apple Day at St. Louis Fair.**

At the second annual meeting of the American Apple Growers' Congress in St. Louis, November 17-18, the report of the committee on grades of fruit and sizes of packages was adopted, recommending a standard barrel holding three bushels, and a standard bushel holding 2,645 cubic inches. It grades a No. 1 apple to be not less than $2\frac{1}{2}$ inches in diameter, except in Romanite, Russet, Winesap, Jonathan, Missouri Pippin and kindred varieties, when they may be not less than $2\frac{1}{4}$ inches; not over 10 per cent. affected by defacement, hand-picked, and not bruised, and of bright color and shapely. A No. 2 apple may be one-fourth of an inch less in diameter than No. 1, not over 20 per cent. affected by defacement, scab, dry rot, worms or other defects. Must be hand-picked, not bruised and of bright color and shapely.

Prof. John Stinson, superintendent of pomology at the World's Fair, spoke on the "Apple Exhibit at the Exposition." He suggested that a day be set aside as apple day at the Fair and that apples be given every visitor on that day. It is proposed to have on hand not less than 100,000 apples, including all the better known varieties, for gratuitous distribution. Most of the supply will be donated by the apple growers. The selection of the day has been placed in the hands of the executive board, which will name a date in the last week of September or the first of October, 1904.

The following committees on awards were appointed: For new varieties of apples exhibited at the convention—Messrs. L. A. Goodman, Kansas City, Mo.; J. W. Stanton, Richview, Ill.; Wesley Green, Des Moines, Ia. For all other varieties of apples and other fruits exhibited—Messrs. W. Farnsworth, Waterville, Ohio; W. H. Perrine, Centralia, Ill.; W. C. Reed, Vincennes, Ind.

NEW YORK'S EXHIBIT AT ST. LOUIS.

The New York State exhibit of fruit for the St. Louis Exposition, which Director Vick of the department of horticulture and floriculture has been gathering from all parts of the state for six months, is practically complete and will be shipped from Gleason's warehouse in Brighton, where it is in cold storage, as soon as cold weather sets in. There are four hundred barrels of apples, comprising 250 varieties, constituting the largest and finest exhibit of this fruit ever made by the state. Mr. Vick has about 2,500 pounds of grapes for shipment.

NEW ENGLAND'S OPPORTUNITY.

In the course of an address before the Rhode Island Horticultural Society at Providence, President J. H. Hale, of the American Pomological Society, said:

Here in New England we have the finest markets in the world right at our door. We are right on the Atlantic coast, and have the best facilities of any location in the world for supplying the great English market. Practically all the fruit used in London and vicinity has to be imported, and New England is the nearest available point where this fruit can be grown. There is in this country at the present time a ready market for twice the amount of good apples now consumed. In other sections of the country vineyards and orchards are being laid out on a large scale for the growing of fruit to supply the New England market.

The land in New England is cheap, the opportunities are all here, and it only waits for the enterprising man or woman to take advantage of them.

NURSERYMEN SHOULD PROGRESS.

President J. H. Hale, of American Pomological Society, speaking of the advantage to the nurseryman of keeping informed on matters pertaining to his business, says:

Suppose Colonel Pope years ago had thought only of manufacturing bicycles; how many would he have sold? His biggest efforts were always in the line of good roads for bicyclists to run on and a general knowledge of and encouragement of the use of the bicycles, and when he got the people stirred up thoroughly along this line they were ready to buy his goods and so it is with the nurserymen. They want to devote more of their energies, time and money in an encouragement of a love and appreciation of fruits, flowers and plants and then there will be more and more people to buy their wares and will want them of higher quality and be willing to pay higher prices for them. That is why it is a good business policy for every nurseryman in the country to take hold and help boom the American Pomological Society and then do everything they can in their own states through the local horticultural and pomological societies, not working directly in the interests of nurserymen, but in the interest of general horticulture and pomology. The right kind of liberality along horticultural lines will prove of great and most lasting benefit to the nurserymen and I am sure more are going to see it as the years roll around.

SMITHVILLE FLATS EXPERIENCE.

A writer, "A. D. B.," in Smithville Flats, N. Y., writes to the Rural New Yorker:

Seven years ago one of the much-talked-of agents called at my place and informed me he was selling McIntosh Red Apple trees. I whistled for the dog, and before the dog came he showed me a flaming picture of the old tree loaded with beautiful red fruit and a certified letter stating the agent's trees were from buds from the old original standing on the old McIntosh farm in Ontario, Canada. Of course, I bit, paid him 75 cents a tree for six. The result is these trees have borne three annual crops, and have taken a first prize wherever shown. They will be seen at the St. Louis Exposition.

NURSERYMAN'S PROBLEMS

Discussed By Charles T. Smith, Concord, Ga., Before Southern Association—Planting and Legislation—The Versatility Required — Some Experiences — The Bright Side.

"The Nurseryman's Problem," was the subject of a paper presented by Charles T. Smith, Concord, Ga., at the annual meeting of the Southern Nurserymen's Association. He said:

"It is always timely and important, however successful business may seem to be, to keep an eye on the future and its problems. With the nurseryman this is especially true, as the transactions of our business are such that we have to prepare and plant years ahead in order to be ready for the trade that we expect to come to us in the future. Any crop that we can grow requires a year, while the bulk of our plantings take two seasons to reach a marketable stage. This being the case, it is often a problem to know just what to plant in order to be prepared to meet the demand, since it is impossible to know so far ahead just what will be necessary to supply the wants of our customers. Of course, so far as the general run of sales is concerned, we can guess pretty well what will be needed, though that gets to be quite a puzzle sometimes. Conditions are subject to such variations from year to year, on account of good crops, poor crops, or some uncertainty of markets, as to form a hedge of difficulties over which it is hard for the nurseryman to guess.

AS TO PEACH PLANTINGS.

"Some of us here to-day would like mighty well to take a peep into the future and try to learn if it were best to increase our plantings of Peach seed the coming winter, for next season's June-budded stock. With others of us just now the problem is to get any seed at all to plant. If we could just know how the Peach crop will turn out next year and whether the orchardist would get reasonably encouraging returns for his labor and investment, it would help us in making a decision in regard to our plantings for June buds. Then if we could look a little further and see what variety would turn out best, whether Elberta would continue to reign as queen of the Peach orchard, or whether Belle or Carmen would force her to abdicate, we could make out our budding lists more intelligently. Then we would like to know if the business is about to be overdone, if too many Peach orchards are being planted, or if Southern peaches will continue to find a market in other parts of the world, finding buyers for all that will be produced in years to come.

"This is a very important problem for the nurseryman, as in case of a slump he will be the first man to get hit. Many of our foremost orchardists and nurserymen are going ahead increasing their plantings annually with an apparent faith in the business that is sublime. As the matter now stands all we can do is to make a guess, both as to variety and quantity, and bud by that, trusting the market to take the stock. These problems are inclined to fill the life of the patient nurseryman full of trouble.

THE LEGISLATIVE PROBLEM.

"Then there is the legislative problem that is causing insomnia epidemic among some of us. It has come to the

point now that every nurseryman must either study law or employ a lawyer during the shipping season, that he may properly comply with many various laws of the different states into which he makes shipments. This is a problem that is becoming as serious as some others that I will make mention of in this paper. It is very essential that we keep an eye on the legislation of certain states where the law seems to be framed with the special view of going for the nurseryman. It is well also to look closely after the cities and villages that deem it their inalienable right and privilege to assess a license fee of \$25, and so on, upon every tree man invading their sacred precincts. Of course we know the unconstitutionality of some of these measures, but it may sometimes be better to pay out a little money unjustly rather than go to the expense of trying to teach some people constitutional laws and Supreme court decisions.

NURSERYMAN'S VERSATILITY.

"Some of our problems are problems of the future all right enough; but many of them are problems right now, 365 days in the year, and one year after another—problems that no man in any other line of business that we know anything about has to contend with. To run a nursery successfully for any satisfactory term of years, some of the few things required are capital, clear grit, energy, tact and business acumen, and in addition to these minor details of capacity it is necessary that the nurseryman be the master of more ologies and otomies than are required in any other line of business. He must be a farmer with all the varied knowledge of the tiller of the soil; a business man with all the keen business ability of the most successful merchant; a lawyer with that able insight into the legal intricacies of the most learned practitioner; a diplomat that he may successfully manage and harmonize the many people who work for him in the office, the field or on the road.

MUST BE ENCYCLOPEDIA.

"In addition to these, he must be an entomologist that he may be able to identify the many insects that are prone to make the life of the average nurseryman miserable; a biologist that he may properly classify all the knots and bumps on his trees to the satisfaction of his customers; a botanist that he may know his young plants more thoroughly and call them by their unpronounceable botanical names. Then in addition to these minor details, he must be a prophet that he may know what sort of Peach trees are going to find sale year after next when his stock is to be ready for the market. For the information of his customers, as well as the fellow who was never known to be a customer of any nurseryman, he must be able to diagnose every disease to which trees are heir and prescribe and prescribe the proper remedy; to identify every specimen of the entomological world and give it the right sort of medicine. Then he must be able to name off hand any chance tree that shows some little merit, its immediate locality, and offer a good round sum for the control of the stock of it; otherwise, he is not considered not much nurseryman. To meet these emergencies, every nurseryman must be a philosopher and at the same time keep a firm grasp on his religion.

"It would seem that a man of such diversity of talent and ability would soon be above ordinary labor, and would rank

with the most exclusive capitalists and reap the just rewards of his honest toil. We are sorry to say, however, that the returns from his labor do not seem commensurate with the talents and expenditures that he is forced to invest in the business.

SOME OF HIS EXPERIENCES.

Among the many serious subjects with which the nurseryman is confronted, is the crank who thinks he knows something about fruit trees. He puts in a large order, after beating the price down to the last notch, and the order is carefully filled with the most beautiful trees, straight and smooth, all carefully labeled and nicely boxed, the shipment is received and opened in due time, and then the trouble comes. He finds that the trees are too small, or they are crooked, or the roots are badly mutilated, or the freight charges are out of all reason, or he doesn't think they will live after being on the road so long; and so he informs the patient and long-suffering nurseryman that the goods are at his disposal. Murder is against the law in this country, we are sorry to say, sometimes, so the question becomes what will we do with the party?

"There are other problems of various sorts that the nurseryman is called upon to face, which like the celebrated Banquo's Ghost refuse to down, and which would floor any but the most zealous and earnest of our little band. My paper would be too long, were I to try to enumerate them all here, and prescribe treatment for any of them.

THE BRIGHT SIDE.

"It is a pleasure to know that some of you are amassing fortunes in spite of the problems that rise up in front of you, and that you are doing something to better the world in a material way. And speaking of missionary work, who can excel the nurseryman? He has his host of representatives on the road from early morn to dewey eve, preaching more trees and better ones, causing two trees to grow where only one grew before, improving the size of the fruit as well as the quality and quantity, beautifying every home as he goes along preaching more fruit and better. Who would ask for a grander memorial to his handiwork, in this world, than to pass away knowing that he had planted stately and fruitful trees around a hundred thousand homes. What monument could be finer than a million beautiful trees to attest his work in this world? It will be a satisfaction to you when you lay down your work, to realize that you leave behind you thousands of living monuments in the shape of stately trees that are more beautiful than could be carved from the marble of our mountains."

GEORGIA PEACH ORCHARDS.

Secretary F. W. Hazlehurst, of the Georgia Fruit Growers' Association, says:

Large orchards are coming into bearing around Eatonton, Mayfield, Sparta and the eastern part of the state. Jones county has recently put out large orchards. The section lying between Macon and Atlanta also has some large and fine orchards. North Georgia commences about Atlanta, at about Marietta, where big orchards are being planted. Further up, it is a sight worth looking at to see the big orchards around Plainville, Dalton, Raccoon Mill and Summerville. The North Georgia planters will rapidly gain on the South Georgia growers in the next two or three years on account of the large number of young orchards already planted.

In Common Council.

Editor NATIONAL NURSERYMAN:

What profession or calling is more systematic than horticulture or pomology? This being true, then there should be an established system of scoring fruit from a fixed standpoint of perfection of an ideal. Every practical fruit grower has an established conception of "ideal" fruit throughout the whole catalogue of varieties, and when brought in connection with an exhibition of fruit, the keen eye, like a searchlight of the expert scrutinizes the whole display at a glance to sum up the "ideal" or the rate of perfection that is present. The score card that is best calculated to answer for all fruits, and cover the whole United States, at all fairs and fruit shows should be in five considerations of an ideal of 20 points each for the lead. For commercial purposes the score card should be headed with size, condition, quality, color and flavor, 20 points each, a total "ideal" of 100. The standard rule at all fairs and fruit shows is to bring each variety in competition with that special variety: Ben Davis against Ben Davis, Baldwin against Baldwin, Concord Grape against Concord, Elberta Peach against Elberta Peach, and so on through the entire catalogue.

If the score card was made to select the "ideal" variety out of the whole catalogue, then all the points of the growth, development, productiveness, hardiness, life and duration of the tree or plant, with size, condition, quality, color and flavor of the Apple, Peach, Plum, Pear, Grape, or any other fruit, should be the chief consideration. But such are not the points of consideration at the fruit shows, for if size were the highest score, then the competition would rest between the Gloria Mundi and the Wolf River in the Apple, and so on through all the consideration of the ideal.

If the varieties were shown for what they actually are, in growth, development, health, life, duration, hardiness, etc., the consideration would have to be brought into the score card of all the old well-known, the same as of the new and unknown varieties.

The purpose and intent of fruit shows, as is the case in all shows of farm products, is to stimulate the evolution of the industry in the well established varieties. Plant breeding, or thorough plant breeding, would necessarily come under the observation of the specialist. These five considerations cover every feature of the ideal from every standpoint, either domestic, commercial or for transportation purposes.

Size covers the ideal of each variety or kind, uniformity of the ideal in size. Condition covers the ideal, Summer, Fall and Winter, in condition at the time of the show, and disease is the opposite to an ideal; quality covers the ideal of each variety and not a select sample from the whole; color of an ideal does not imply that all Apples shall be red, or all grapes black, but covers the ideal color at the time of the show, for Summer, Fall and Winter varieties. Flavor, if judged from a standpoint of the ideal in full maturity, would cut out all immature specimens at the time of the show, hence it would be folly to enter late Fall or Winter varieties in September or October shows. Each of these considerations are essential and of equal value in the ideal specimen, and any additions to these considerations of the ideal would serve to confuse other than establish a better consideration.

Des Moines, Ia.

S. H. LINTON.

STARK BROS.' PORTLAND PLANT.

The Portland, N. Y., plant of Stark Bros. Nursery and Orchard Company is in charge of J. L. Ince, of 15 years' experience in Stark Bros. Nurseries. He had 45 men in his employ this Fall. T. G. Stark, of Louisiana, Mo., is in charge of the newly finished office. This storage cellar is 50x80 feet and there are besides grading and packing rooms. One hundred acres of land have been planted to grape cuttings; also a large quantity of fruit and ornamental stock. The firm is giving special attention to the Hicks, a new black grape larger and earlier than the Concord.

Among Growers and Dealers.

F. A. Beebe, Jones City, Okla., is soon to open a nursery.

James McHutchison, of New York, visited Rochester nurserymen last month.

Application has been made for a charter by the Elliott Nursery Company, Pittsburg, capitalized at \$10,000.

D. M. Tate, Gage, Tenn., has discontinued growing nursery stock and is devoting all his time to his orchards.

Henry L. Slosson, at one time in the nursery business in Geneva, N. Y., died there November 16th, aged 61 years.

William Peterson, of the Rose Hill Nursery Company, has been elected a director of the State Bank of Chicago.

A nursery firm has been established on a 40-acre tract of land on Anna Maria Key, Jacksonville, Fla., by Jarvais & Kasson.

Frederick W. Kelsey, New York city, has been succeeded as president of the New England Society of Orange, of New Jersey, by Isaac C. Ogden.

Harlan P. Kelsey and Irving T. Guild have formed a partnership for the practice of landscape architecture, with offices in Boston. Mr. Guild was formerly editor of the *Architectural Review*.

The Easterly Nursery Company of Bradley County, Tenn., has been incorporated; capital stock, \$10,000. Incorporators: W. A. Easterly, G. M. Bazmore, J. F. Johnson, W. P. Lang and J. E. Johnston.

The incorporators of the Callahan Nurseries at Eau Claire, Mich., are James P., James E., Margaret N. and Cornelius L. Callahan and John McLane of Eau Claire, and J. W. Loftus of Dansville, N. Y.

Charles Fremd, Jr., Rye, N. Y., advocates the planting of the Umbrella Pine, of Japan, at once a beautiful, useful and curious tree. It is pyramidal in form and attains a height of 100 feet. This tree stands to-day as a monotypic genus like the Ginkgo.

Ernest H. Balco has resigned his position in the office of the Allen Nursery Company, Rochester, N. Y., where he has been employed for a number of years. He has gone West and has taken a similar position in the office of T. E. Griesa, proprietor of the Griesa Nurseries, Lawrence, Kas.

During the month of September, 2,744,119 pounds of cured fruits were forwarded from San Francisco, of which 2,067,738 pounds of prunes, 37,200 pounds of apricots and 37,300 pounds of pears went to Germany. Total shipments for the same period last year were 873,924 pounds.

With J. H. Hale as president and Prof. Craig, of Cornell University as secretary, the American Pomological Society should forge ahead this year. These are two active workers. They are receiving promises from nurserymen to lend a hand, and also biennial and life memberships from growers of nursery stock.

A certificate of incorporation has been granted the Sleepy Creek Orchard Company, of Sleepy Creek, Berkeley County, W. Va., to engage in the fruit growing and nursery business; capital \$25,000. Incorporators, W. M. Scott, S. H. Fulton, M. F. Scott, L. R. Fulton, Washington, D. C.; A. H. Apperson, Atlanta, Ga.

The Red Banks Orchard Company has been incorporated at Visalia, Cal., with a capital stock of \$125,000 to carry on a nursery orchard and marketing business. The property owned by the company consists of 500 acres, 80 acres of which are set to nursery stock. Between 200 and 300 acres will be planted to orange trees the coming season.

The high cost of barrels has been a feature of the apple harvest, cutting sharply into profits of growers. Ordinarily, new barrels can be bought for 30 to 35 cents each. This year the market advanced to 45 cents, in many instances 50 cents, and occasionally 52 cents. Second hand flour barrels have recently sold in eastern cities at fully 30 cents.

A nurseryman of San Dimas recently shipped 250 cases of Washington navel trees to Italy, to be distributed among the various experiment stations in that country, says the California Fruit Grower. A carload of trees, over 5,000 in all, were also shipped to Cape Town, South Africa, by the same nurseryman, being the fourth order of the same size to be filled by him from that point.

From Philadelphia comes word of the failure of the firm of D. Landreth & Sons, seed merchants, with liabilities of about \$150,000, and assets much less. The firm was founded in 1784 by David Landreth, who came from England, and the business has since remained in the family. The firm owns extensive seed farms in Bucks County, Pa., Burlington, N. J., and Lancaster, Pa. A receiver was appointed on November 7.

"Down in Georgia where there is a hard subsoil," says J. H. Hale, "I put out 35,000 peach trees last Winter, and broke the land all up way down deep with a subsoil plow, and I propose to do the same on about 20,000 trees going out there this Fall. In California, in places where the soil is very hard, yet altogether free from rocks and stones, they have found it a decided advantage in putting in their orchard trees to break up the ground with dynamite before planting."

Much of renewed interest in Rhododendrons and allied flowering evergreens may be credited to such nurserymen as Harlan P. Kelsey, Boston, Mass., who has long been advocating the use of reliable native species in preference to cross-bred varieties of tender parentage, says Rural New Yorker. Mr. Kelsey is an extensive collector of hardy plants and shrubs, and in addition has a large nursery at Kawana, N. C., at an elevation of 3,800 feet, for the propagation of the rarer species.

The Stark Brothers Nurseries and Orchards Company, of Louisiana, Mo., filed suit October 19 for \$12,000 damages against Jas. B. Wild & Brothers, of Sarexie, Mo., nurserymen. The plaintiffs charge that Jas. B. Wild & Brothers have been selling apple trees since July, 1902, under the names of "Senator," "Champion," "Black Ben Davis" and "Apple of Commeree," names which the Stark Company says it has registered both with the Missouri secretary of state and in the U. S. patent office. The Stark nursery claims that it originated the varieties so named.

FOR HORTICULTURAL SCIENCE.

Formal announcement of the organization of the Society for Horticultural Science has been issued by the secretary, Prof. S. A. Beach, Geneva, N. Y. Prof. L. H. Bailey is the president. A constitution and by-laws have been adopted. The Society will meet about January 1st, in St. Louis, with the A. A. A. S.

From Various Points.

Americans in Cuba have placed orders already for 40,000 to 50,000 orange trees.

A number of individuals have placed orders for citrus trees amounting to eighty or ninety acres around Cutler, Fla.

Griffing Bros. will, between this date and March, set sixty acres in citrus fruits at Orange Glade, Dade County, Fla.

A Northern party has given orders for orange trees to cover 250 acres at Terra Ceia, Fla., another to plant thirty or forty acres at St. Petersburg, Fla.

It is estimated that 3,000 acres of apples will be planted in the Rogue River valley, Oregon, this Winter, including Yellow Newtowns, Spitzenbergs and Jonathans.

The prospects are that Florida will produce a good crop of oranges, pineapples and truck this season. The orange yield is estimated at a round 1,725,000 boxes.

The Delray, Fla., Fruit and Vegetable Growers' Association estimates 70,000 crates of pineapples for that section next Summer. The pineapple acreage is increasing very fast.

Professor Samuel B. Green, of Minnesota, has been elected director of the combined forestry and horticultural exhibits to be made by the Association of American Colleges and Experiment Stations at the St. Louis Exposition next year.

Thirty of the most prosperous, enterprising and wide awake towns, cities and counties of Georgia have organized The Greater Georgia Association, having for its object the upbuilding of the state by means of judicious advertising throughout the middle West and the Atlantic states.

The Federal crop report for November shows percentages on apples above 80 for only seven states: Minnesota, South Dakota, Montana, Nevada, Washington, California and Oregon. New York has rating of 76, Missouri 29, Ohio 49, Michigan 73, Illinois 33, Iowa 53, a full crop being 100 per cent.

Foreign Notes of Interest

A succession of cold Springs and wet, sunless Summers has so demoralized the majority of fruit trees that they now present an overgrown appearance, and suggest that restrictive measures will have to be adopted to bring them again into a state of fruitfulness, says Gardeners' Magazine, London, Eng.

An Ipswich, England, correspondent states that he has grown the perpetual-fruiting strawberry known at St. Antoine de Padua during the three past years, and has annually had splendid crops during the latter part of September, and in October and November. He also states that the plants fruit freely during the usual strawberry season.

In the matter of encouraging and enlarging the fruit industry in Germany, one community paid as much as 3,000 marks (\$714) per annum for each person graduated from the classes of its horticultural schools during the years 1891, 1892, and 1893. New colleges, schools and educational institutions of agriculture and horticulture are being erected and opened all over the Empire.

The seventeenth annual dinner of the United Horticultural Benefit and Provident Society, of Great Britain, was held in London in October. Peter Barr, V. M. H., the president, presided. There were 111 present. The Society has a membership of 1,040 and a reserve fund of \$110,000. "The Chairman" was proposed by C. H. Curtis, who eulogized the services Mr. Barr had rendered to horticulture, spoke of his wonderful travels during the past five years, and his unabated spirit now. In reply, Mr. Barr said that he hoped to visit Khartoum, Egypt, and Greece, and every important garden in Britain! This was a remarkable speech for a man approaching eighty years of age. "The Horticultural Press" was neatly proposed by Mr. Thomas Winter, and appropriately responded to by Mr. R. Hooper Pearson, who remarked that Professor F. A. Waugh, when in England, had obtained a copy of the society's rules and taken it back to the United States with him, so that there was a prospect of an American development on similar lines.

J. G. HARRISON & SONS.

The frontispiece of this issue gives a view of some of the buildings and packing grounds of J. G. Harrison & Sons at Berlin, Md. In addition to the plant shown, they own and cultivate in Peach, Apple, Pear, Plum and Cherry trees, Asparagus roots, Strawberry plants, twelve hundred acres of land, all located within two miles of the packing house and office, where all stock is taken to grade, check and pack. They have a railroad siding which runs parallel with the building and holds twenty cars, which enables them to handle trees without exposure.

They have made the Peach their specialty since they started sixteen years ago, and have since made Apple trees their second Fall specialty to handle, and have at this time a complete list of Apple trees, and a most excellent plant for next season's sales.

Their specialty for Spring has always been Strawberry plants, and they have them by the million, as this season's growth has been very good. They give the nursery business undivided attention; no side lines. They grow and sell trees largely to the wholesale trade.

The firm consists of three, J. G. Harrison, the father, and Orlando Harrison and George A. Harrison, the two sons, who will be glad to welcome any nurseryman or horticulturist to look over their plant at any time.

E. S. WELCH.

We present herewith a likeness of one of the leading nurserymen of the United States. E. S. Welch, proprietor of the Mount Arbor Nurseries at Shenandoah, Iowa. Born in Illinois in 1869, he is one of the youngest men in the class of really large growers of nursery stock. He is not only an enthusiast in the business, but is thoroughly trained in all its branches and an indefatigable worker. He has climbed from the bottom, starting to work in the field when a boy thirteen years of age.

While the Mount Arbor Nurseries was established in 1875, it had but a comparatively small plant and meagre facilities when it passed into the hands of Mr. Welch in 1891. Under his progressive management it has made great strides to the front. The present annual wholesale business exceeds \$100,000, besides a large amount of retail sales.

The plant is one of the largest, cleanest, most varied and up-to-date in methods and equipment in the West. Commodious frost-proof storage buildings and packing sheds are electric-lighted and connected by private telephone system. A railroad side-track runs full length of the packing grounds. City water is supplied to every building and to all parts of the five acres on which the office and buildings are located. Every modern convenience is at hand for the safe and rapid handling of an extensive trade.

Southwest Iowa is a most favored section for agricultural purposes and Mr. Welch is fortunate in owning several hundred acres of the choicest land most desirable for growing nursery stock.

Shenandoah is a lively little city of 4,500 with a wide reputation in the nursery business. No small portion of this record is due to the energy and enterprise of Mr. Welch and the Mount Arbor.

Mr. Welch is an earnest, working member of the American Association of Nurserymen, as well as several other societies pertaining to his business. As is usually the case with responsible nurserymen, he is prominently identified with the up-building and welfare of his home city, filling the position of director of one of the principal banks, treasurer of the Home Building and Loan Association, and member of the Board of Education, and Carnegie Library Board.

ADVERTISING THE MOTIVE POWER.

"Advertising is the great motive power of the business world to-day, and you nurserymen must get in line if you expect to keep pace with this twentieth century and American progress.—Frank B. White.



E. S. WELCH.

The National Nurseryman.

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ROCHESTER, N. Y., DECEMBER, 1903.

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Committee on Cost of Growing Trees—Wilson J. Peters, Troy, O.; W. F. Heikes, Huntsville, Ala.; Theodore Smith, Geneva, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.
NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.
EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, A. L. Brooke, N. Topeka, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.
SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.
SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.
PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Organized at Portland, Ore., January, 1903.

NURSERYMEN AS LEADERS.

President J. H. Hale, of the American Pomological Society, has echoed the sentiment which we have repeatedly expressed in these columns, viz.: That the continued success of the nursery business must depend largely upon the educated taste of the people along higher pomological lines.

And in order to attain that result the nurserymen must be leaders in encouraging that education. To be able to instruct others, the nurseryman must be posted upon the subject matter in question. Therefore, his first duty is to obtain that knowledge of his business and of the many attendant features which will enable him to impart instruction. To this end, membership in horticultural societies and in such an organization as the American Pomological Society is essential, as is also constant perusal of publications appertaining to the business and the subject of horticulture. The nurseryman should be watchful for information of this kind from general sources and should read his trade journal from a business point of view, noting the discussion of topics and the announcement of trade news with the idea of being able to put the knowledge thus acquired to practical use at an opportune time. Those nurserymen who do this are the ones who forge ahead and it is the explanation for their success which to the indifferent member of the trade seems inexplicable.

Read, move about, get posted and act. Profit by the experience of others. Be an active member of the American Association of Nurserymen and of your district nurserymen's association, and attend the meetings of your local horticultural society, so that you may rub up against the orchardist; learn from him what he wants in the line of trees and then meet that demand. Success lies in supplying a public demand.

NUT GROWERS' MEETING.

The second annual meeting of the National Nut Growers Association was held in New Orleans, October 28-30. There was a large attendance.

"The Outlook for Commercial Pecan Growing" was discussed at length by H. S. Watson of Illinois. He said that the industry is just in its infancy. The nut is now one of the most popular in the market and is constantly becoming better known and better liked. There is no other part of the world where the pecan grows wild, or is cultivated. The trees grow and bear well in the Southern States.

The committee on nomenclature standards made a report through the chairman, W. A. Taylor, of Washington, D. C., in which the re-naming of varieties was severely condemned, and also the giving of long and ill-advised names, which has often been done with the pecan. Papershell, Softshell, Mammoth and others of like character are to be dropped and only short, easily pronounced and distinctive names will be approved. A systematic scale of points, for judging the merits of the varieties of the pecan, was offered and adopted by the convention.

"Genuine Stock and How to Obtain It," was treated by Theo. Bachtel of Ocean Springs, Miss. He said the only true and safe way was to get propagating wood from bearing trees. Every nurseryman should have such trees on his own place, or where he can see them and have access to the wood for budding and grafting.

"Budded or Grafted Trees vs. Seedlings," was spoken of at some length by H. E. Van Deman of Washington, D. C.

The variation of seedlings from the parent tree are very great with the pecan, as with many other trees; and usually for the worst, with the choice varieties.

Prof. J. T. Stinson invited the association to hold the next meeting at the Exposition in St. Louis and it was decided to do so.

PROFESSOR ALWOOD REPLIES.

Referring to the criticism of the Virginia nursery inspection law by State Vice-president K. Morton, Prof. W. B. Alwood, of the Virginia Polytechnic Institute, at Blacksburg, Va., says, in a communication to the Richmond Times-Dispatch, that it has always been his opinion that a tax of \$20 would work a great injustice to the small nurserymen and that he so expressed himself before the State Horticultural Society last December. He favors a minimum charge of \$5. Prof. Alwood continues:

As to this correspondent's assertions that no nurseryman would let his stock become infested with San Jose scale or other pests, I think it fair to say that unfortunately a large number of nurserymen have permitted their stock to become infested with the San Jose scale and some other pests. Among this number are found the very best nurserymen in America, and the records of my office will show that the very best nurserymen in Virginia, and in all the Eastern States for that matter, realize fully the propriety of the inspection of nurseries and the condemnation and destruction of infested stock. Notwithstanding this correspondent's sarcastic remarks about the "paid entomologists," the very best nurserymen in Virginia and the Eastern States have repeatedly written to this office for advice and assistance whereby they might keep their nursery stock free from pests. As proof of the value of our advice, I may say that practically every nurseryman in the Eastern United States is now fumigating his stock before shipment, which I first introduced into the system of nursery work, by enforcing fumigation in the Virginia nurseries, in order to protect planters from the San Jose scale and the wooly aphids.

The Virginia State Horticultural Society will meet at Pulaski, Va., Dec. 2-3, and will no doubt frame a bill to be presented to the State legislature now in session, either modifying or repealing last year's measure which requires a license fee of \$20 annually from every nursery salesman.

The protest made by Vice-President K. Morton, of the American Association of Nurserymen, as published in the November issue of the NATIONAL NURSERYMAN, has called forth a long explanation from those who are responsible for what the nurserymen of Virginia term a drastic measure. Secretary Walter Whately of the Horticultural Society, heartily endorses all that Mr. Morton has said on the subject.

TWELVE PIES FROM ONE LEMON.

Up-to-Date Farming offers as a premium to subscribers the "American Wonder Lemon, also called Ponderosa Lemon." The publishers say:

This is a true, everbearing variety of lemon. On a tree six feet high, 89 mammoth lemons were growing at one time. At the same time the tree was blooming and had fruit in all stages of growth. It was a beautiful sight. It blooms and bears fruit when quite young. Lemons have grown to weigh four pounds, but the average is about two pounds, and in this respect is the most wonderful lemon grown. It is not uncommon to make twelve pies from a single lemon. As a house plant it is most decorative.

GIVING AWAY SEEDS

The Department of Agriculture has begun its annual distribution and the process of giving away seeds to whomsoever applies will continue for a period of about four months. Each congressman is allowed 12 500 packages of garden seeds in five varieties, and 500 packages of flower seeds. The packages will be distributed upon receipt from the congressmen of the proper addresses. In addition to this allotment the Department itself will distribute the mere bagatelle of 700,000 packages, the bulk of which will go to its voluntary crop correspondents, and weather observers scattered over the entire country.

A bill has been introduced in Congress to do away with the seed distribution. It is extremely doubtful that it will be passed. Nurserymen are directly interested because the Department of Agriculture is now giving away trees and plants.

THAT VEGETABLE PEACH.

Regarding the "vegetable peach" to which reference was made in these columns recently, Luther Burbank writes to the California Fruit Grower:

The "vegetable peach" referred to is without doubt one of the Figari or "pocket" melons of Europe. This, and the Chito melon, often called Orange or Pomegranate melon, are varieties of *Cucumis melo* which is of African origin. The vines resemble the common musk melon, but are more slender. The abundantly produced fragrant fruit is often used for mangoes, but is hardly edible until cooked.

These melons have been grown as curiosities in America for very nearly half a century. Their beauty and fragrance seem to be the best apology for continued existence.

The Colusa, Cal., Sun, says:

This vegetable resembles a lime in color and shape, but is the size of a large melon. The skin is very thin and when cut in half resembles a musk melon, the center being filled with seeds. It also has a slight musk melon flavor. Vegetable peach, however, is evidently a misnomer, for neither in color, shape or flavor does it resemble a peach, but has a strong leaning toward the apple.

Horticultural Meetings.

MAINE POMOLOGICAL SOCIETY—At Auburn, November 10, one thousand fruit plates shown. Z. A. Gilbert, president; D. H. Knowlton, Farmington, secretary.

MASSACHUSETTS HORTICULTURAL.—At Boston, November 14, Appropriated \$6,050 for prizes. Dr. H. P. Walcott, president; W. P. Rich, secretary.

COMING EVENTS—West Virginia, Wheeling, December 1, 2; Missouri, Columbia, December 1, 3; Minnesota, Minneapolis, December 1, 4; Virginia, Pulaski City, December 2, 3; Indiana, Indianapolis, December 2, 3; Iowa, Des Moines, December 8, 11; Connecticut, Hartford, December 9; Western Nurserymen, Kansas City, Mo., December 15; Illinois, Champaign, December 16, 18; Kansas, Topeka, December 28, 31; New York Fruit, Geneva, January 6, 7; New Jersey, Trenton, January 7, 8; Maryland, Baltimore, January 14, 15; Nebraska, Lincoln, January 19, 21; Eastern Nurserymen, Rochester, N. Y., January 20; Rhode Island, Providence, January 20; Peninsula, Cambridge, Md., January 20, 22; Western New York, Rochester, January 27, 28; Carnation, Detroit, March 3; Massachusetts Fruit Growers, Worcester, March 9, 10; Mississippi Valley Apple, Quincy, Ill, March 25.

WESTERN NEW YORK NURSERY CO., Rochester, N. Y.—"The NATIONAL NURSERYMAN is O. K. We enclose \$1."

AMERICAN POMOLOGICAL

President J. H. Hale Makes Plea for Active Work By Nurserymen—A Business Proposition, If Nothing Else.

President J. H. Hale, of South Glastonbury, Conn., makes the following very appropriate suggestion to nurserymen:

At the recent meeting of the American Pomological Society, they saw fit to elect me president, with Prof. John Craig of Ithaca, N. Y., as secretary.

In looking over the records I find a membership of less than four hundred for the whole United States and Canada.

Now as the continued success of the Nursery business must depend largely upon the educated taste of the people along higher pomological lines, and we ought to have several thousand members, I am going to ask every nurseryman in the country who issues a catalogue, to devote a little space in urging patrons to become members of the society, pay the \$2 biennial membership fee and receive the reports.

The complete stenographic report of even one evening at the Boston meeting when Charles W. Garfield led off on "Ideals in Pomology" ought to be worth many times the cost of membership, to say nothing of the complete proceedings.

Below are the subjects touched upon in bright five to eight minutes talks, by some of the sharpest minds interested in Pomology: The Ideal Dessert Pear, The Ideal Pomological Exhibit, The Ideal Fruit Grower's Family, The Ideal Red Raspberry for Home Table, The Ideal Fruit Package, The Ideal Cluster of Grapes, The Ideal Dessert Apple, The Ideal Fruit Grower, The Ideal Cooking Apple, The Ideal Blackberry, The Ideal Horticultural Society, The Ideal Fruit Grower's Home, and The Ideal Amateur Fruit Garden.

Will you not in your own interest, and for the general good of the cause, devote a little space in your forthcoming catalogue urging membership through Prof. John Craig, Cornell University, Ithaca, N. Y., who will furnish you any special pointers you may need in making up your notice, should you so desire.

COLORADO APPLES CAUSE A STIR.

Writing to the Country Gentleman, John Chamberlin, of Erie Co., N. Y., says:

During the session of the Fruit Growers' Association at Buffalo, I made the discovery that the great West is engaged in undermining our home orchard industry, and I should very much like to ask a few questions on the subject. One of the city grocers showed me perhaps the finest lot of apples I ever saw, at least out of a show collection, and they would have gone far ahead of most apple shows. Had they been made of wax, most of them could not have been improved upon.

The grocer said the apples came from Colorado and were called the Jonathan. Well, our Brother Jonathan may well be proud of his namesake in this case, for it would be hard to improve on it. When I undertook to price the fruit I found that it was selling for about \$5 a bushel and as a mere show it was worth it if the customer could afford that amount of display in what he bought. But here comes the distressing part of the case so far as the Western New York fruit grower is concerned. The grocer said that he was selling quite a lot of these apples, because it was impossible to get any raised about here that would at all compare with them.

The appearance of the Colorado apples warrants the supposition that scab, scale, fungus and codling moth are all alike unknown there, and it is a certainty that the sun is well in evidence where they grow. This special reason for a general waking up in the apple-raising business fortunately appears to be well met by an increase of attention to it by our farmers. Reports from leading orchardists that they have been selling their crop of last year at \$2.75 a barrel and that they attribute their success to good culture and spraying ought to be of some assistance to such of our farmers as are in doubt on the subject.

I find that there is a wide and for the most part unworked field of difference in regard to apple culture. To note that even Prof. Bailey

is wavering slightly over the subject of clean culture, and that mulching is winning support through the assertion that mulched trees that bore last season are again full of fruit buds, while other trees are not—all this and much more goes to show great changes possible in the near future. All the remarks dropped by apple men indicate the same transition.

DO VARIETIES WEAR OUT?

A writer in the *Gardeners' Chronicle*, London, Eng., discussed this subject, says in conclusion:

Reviewing the whole of the evidence at our disposal, the general conclusion would seem to be adverse to the opinion that varieties deteriorate with age and become worn out; so many positive cases can be produced of their assistance, even among short-lived plants, while the steady disappearance of old sorts may be accounted for by their gradual suppression by new introductions of greater merit either in quality or in constitution. But it is very desirable that men whose experience with particular plants extends over a long period should put on record any definite cases bearing on the point.

THEY WANT TO KNOW.

The *Rural New Yorker* says:

"Substitution"! We receive complaints every season from fruit growers who say that nurserymen accept their orders, take their money, and then "substitute" or put in certain varieties of their own selection in place of what the customer really wants. We want to hear from parties who have had such substitutes drafted upon them. We want the facts for our own information.

Long and Short.

For Raffia, call on McHutchison & Co., New York City.

Peach trees, in surplus, at Beechwood Nurseries, Floradale, Pa.

For Rhododendrons, etc., call on P. Ouwerkerk, Jersey City, N. J.

Big fruit trees are wanted by Thomas Meehan & Sons, Germantown, Pa.

Natural Peach seed can be obtained at the Ihloff Nursery, Okeene, Okla.

A foreman for a nursery is wanted by the L. L. May Co., St. Paul, Minn.

J. G. Harrison & Sons, Berlin, Md., have a special announcement in this issue.

Canvassers' plate books are offered for sale by the Hunt Mfg. Co., Newark, N. Y.

Hydrangeas are specialties at Andorra Nurseries, Chestnut Hill, Philadelphia.

D. H. Patty offers at low rate standard Pear and Apples in special grades. Geneva, N. Y.

Apple, Kieffer Pear and Peach at New Haven Nurseries, New Haven, Mo. See announcement.

Michigan-grown Apple, Pear, Peach, Plum can be had at West Michigan Nurseries, Benton Harbor, Mich.

Russian Apricot seedlings, Apple grafts, Catalpa, and Black Locust seedlings, Apple trees, at J. A. Gage's, Beatrice, Neb.

Apples, Peaches, American Chestnuts, Butternuts, Maples, Poplars, etc., are offered by Rakestraw & Pyle, Kennett Square, Pa.

Special arrangements for handling large quantities of nursery stock of all kinds have been made at the Mount Arbor Nurseries, Shenandoah, Ia., E. S. Welch, proprietor.

An efficient safeguard against the ravages of insects and grubs on trees is furnished by the Arndt Tree Protector. Those who wish to secure the best territory should write at once to the Michigan Cut-Flower Exchange, sole distributors, Detroit, Mich.

Recent Publications.

The December Delineator represents the high-water mark of beauty and utility, and possibly of circulation also, in a woman's magazine, having a first edition of more than a million copies. It contains 240 pages. Among the notable contributors are: Richard Le Gallienne, W. A. Frazer, Albert Bigelow Paine, Harriett Prescott Spofford, Andrew Lang, and Gustav Kobbe, with an interesting paper describing the life of Mme. Emma Eames, in her Italian home, with her portrait in colors. There is also the third installment of "The Evolution of a Club Woman."

"Principles of American Forestry" is the title of a book by Samuel B. Green, Professor of horticulture and forestry in the University of Minnesota. This is a book of elementary forestry, and has been prepared especially for students and others beginning this subject. It is also intended for the general reader who wishes to secure a general idea of the subject of forestry in North America. Much of the matter included herein was originally published by the Geological National History Survey of Minnesota under the title "Forestry in Minnesota." The favor with which that work was received has encouraged the publishers to get out this volume, in which the matter is treated in a more general way and enlarged to better adapt it to the whole country. 12mo., XIII-334 pp., 73 figures, including many half-tones. Cloth, \$1.50. New York: JOHN WILEY & SONS. London: CHAPMAN & HALL.

The forty-fifth annual report of the Horticultural Society of Missouri, containing the proceedings of the summer and winter meetings of 1902, has been issued by the secretary, L. A. Goodman. The importance of Missouri as a fruit state and the activity of Secretary Goodman in all matters pertaining to the society, of themselves are reasons why this report is looked forward to with interest by horticulturists generally; and the papers and discussions at the meetings are of great value not only to the fruit growers of Missouri, but to horticulturists of other states. The volume is fully illustrated and indexed, and it contains an excellent map of the state. There are full page portraits of George Hussman, of Napa, Cal., who was secretary at the organization of the society, in 1859. During the last eight years, Missouri has jumped from third or fourth place as a fruit state to first place in the number of growing apple trees.

"The Nature Study Idea", an interpretation of the new school movement to put the child in sympathy with nature, by Professor L. H. Bailey, has just been issued by Doubleday, Page & Co., New York. The book is timely in that it describes what nature study is, who originated the term, and the meaning of the movement about which we hear so much of late. The movement started almost simultaneously in Illinois and Massachusetts schools in 1889 under the title of elementary science. The author of the book in hand describes nature study as the development of a keen personal interest in every natural object and phenomenon—putting the child into intimate and sympathetic contact with the things of the external world. Nature study is studying; not reading nature books. The author's ideas regarding the study of plants are especially interesting, because of his association with old-time methods under Asa Gray and his acknowledged leadership in modern methods. Plants, he says, should always be taught by the laboratory method; that is, the pupil should work out the subjects directly from the specimens themselves; but he should want it to be understood that the best laboratory may be the field. In part III, of the book, Prof. Bailey asks some practical questions and gives some ways of answering them. The book is of great value to all who are in any way interested in the new movement, especially to teachers. The book is uniform in style and binding with Neltje Blanchan's "How to Attract the Birds," by the same publishers. Pp. 150. Cloth, \$1. New York: DOUBLEDAY, PAGE & Co. Rochester, N. Y.: SCRANTON, WETMORE & Co.

One of the finest catalogues that come to our desk is that of the Storrs & Harrison Co., Painesville, O. It is printed on heavy calendered book paper which sets off the half-tone engravings to good advantage. The catalogue is profusely illustrated and is enclosed in a strikingly handsome cover bearing colored half-tones. Regarding

their nurseries the company says: "Fifty years ago, the founder of Painesville Nurseries made the first small plantings for a local trade here in Northern Ohio, along the shore of Lake Erie. To our wonderfully favorable location and great variety of soils the steady growth of the nurseries is doubtless largely due. They now include over 1,000 acres, and extend for over two miles along the shore of the lake. Proximity to such a large body of water protects our nursery stock from early and late frosts and severe climatic changes. No section of the United States is better adapted to the production of healthy, hardy, well-rooted, thoroughly ripened nursery stock. So large an acreage gives space for planting all our fruit and ornamental stock at good distances for the proper development of top and root, so that customers need not lose several years coddling trees and shrubs into growth, or pruning them into well-furnished heads. It also permits the necessary careful lifting of specimen trees and shrubs without interfering with others in the rows. Successful growth after transplanting depends greatly upon securing the whole root system of the stock purchased. The soil-variety of our nurseries, ranging from gravelly loam and deep muck to the heaviest clay, enables us to grow a large assortment of fruit and ornamental stock, and yet to plant each kind on soil especially adapted to its best development. We give more especial attention to the development of fibrous, healthy roots that will transplant successfully in different soils and climates than to luxuriant, showy tops. We are located on main lines of Lake Shore and Nickel Plate, branch line of B. & O. R. R.; have American, National, United States and local electric Express companies, giving us direct connections and prompt service for all shipments."

FAVORS NURSERY BUDS.

In a discussion of the value of buds from bearing trees J. C. Hale, Winchester, Tenn., says in Rural New Yorker:

In my opinion, buds and scions procured from nursery rows are better than those cut from bearing trees, provided that you know absolutely that your trees in the nursery rows are true to name. If you get your buds from nursery rows and grow a block of trees from them, isn't it reasonable to suppose that they are true to name, provided, of course, the nurseryman exercised the proper caution and judgment in staking his blocks and recording the same in his office? And there is no question that buds grown from nursery rows have this advantage over those from bearing trees, in that the chances of introducing pests into your nursery are 90 per cent. greater when you go into your orchard and procure buds from bearing trees, than it is when you get them from nursery rows, because you are getting buds off nursery trees of the same year's growth. In addition to this, the nurseryman cleans up his block every two years, while the orchard is exposed to pests of all kinds, from year to year.

There is another advantage to nurserymen in cutting their buds from nursery rows instead of the orchard, in getting them to correspond in size to the seedling stocks into which you bud—which is not always the case when you bud from stocks cut from bearing trees, as the sticks from bearing trees are usually larger than the seedling stocks into which you bud. In addition to this, the inexperienced budder might put in a good many fruit buds instead of leaf buds. The only argument that I can see for cutting from bearing trees in the orchard, is to insure your varieties being true to name. But when you analyze this proposition, it resolves itself into this simple fact: I cut my buds from bearing trees and bud my nursery blocks; I sell that nursery block to a planter, or plant it in an orchard myself; instead of cutting buds out of those rows for my next year's work, I go to the orchard again for buds; later on, when the trees I sold or planted myself, become bearing trees I go back to them and cut my buds—something I would not do when they were in my nurseries, in rows. It all hinges on the fact of knowing exactly what you have in your orchard or nursery rows to cut from; and it is just as easy to keep them pure in the nursery rows as in the orchard.

THE COE, CONVERSE & EDWARDS CO., Fort Atkinson, Wis.—Enclosed find \$1 for NATIONAL NURSERYMAN. We certainly like the paper and do not wish to be without it."

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PROSPECTIVE WORK IN PARKS.

The St. Charles, Mo., fair grounds have been sold at auction for \$6,400. They contain 41 acres, and will be converted into a park.

The Indiana Union Traction Company is to become the owner of the Broad Ripple Park, Indianapolis, and will improve the same at an estimated cost of \$75,000.

The purchase of Ferry Park, Louisville, Ky., by Col. J. D. Hopkins, one of the owners of Forest Park Highland, of St. Louis, and Forest Park, of Kansas City, is practically completed. About \$100,000 will be spent in improvement of this property.

Col. T. W. Symons, Washington, D. C., has recommended large appropriations for improvement of public grounds in that city.

Ten thousand dollars has been appropriated by the city council for new parks in La Villa, East Jacksonville, Fla.

New parks are proposed at Malden, Mass., \$18,000; Louisville, Ky., Chicago, Calumet Park District; Minneapolis, \$10,000.

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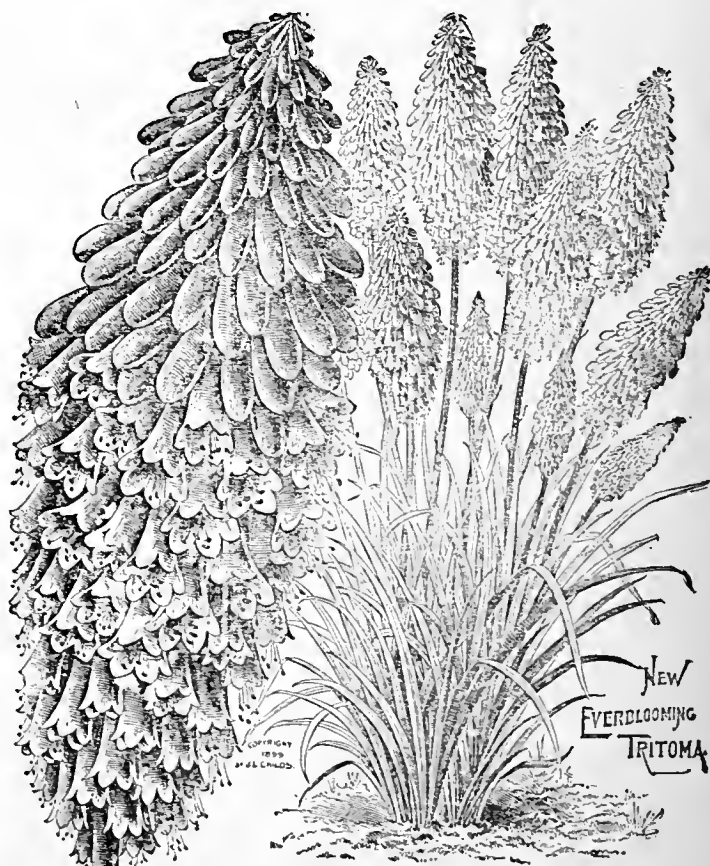
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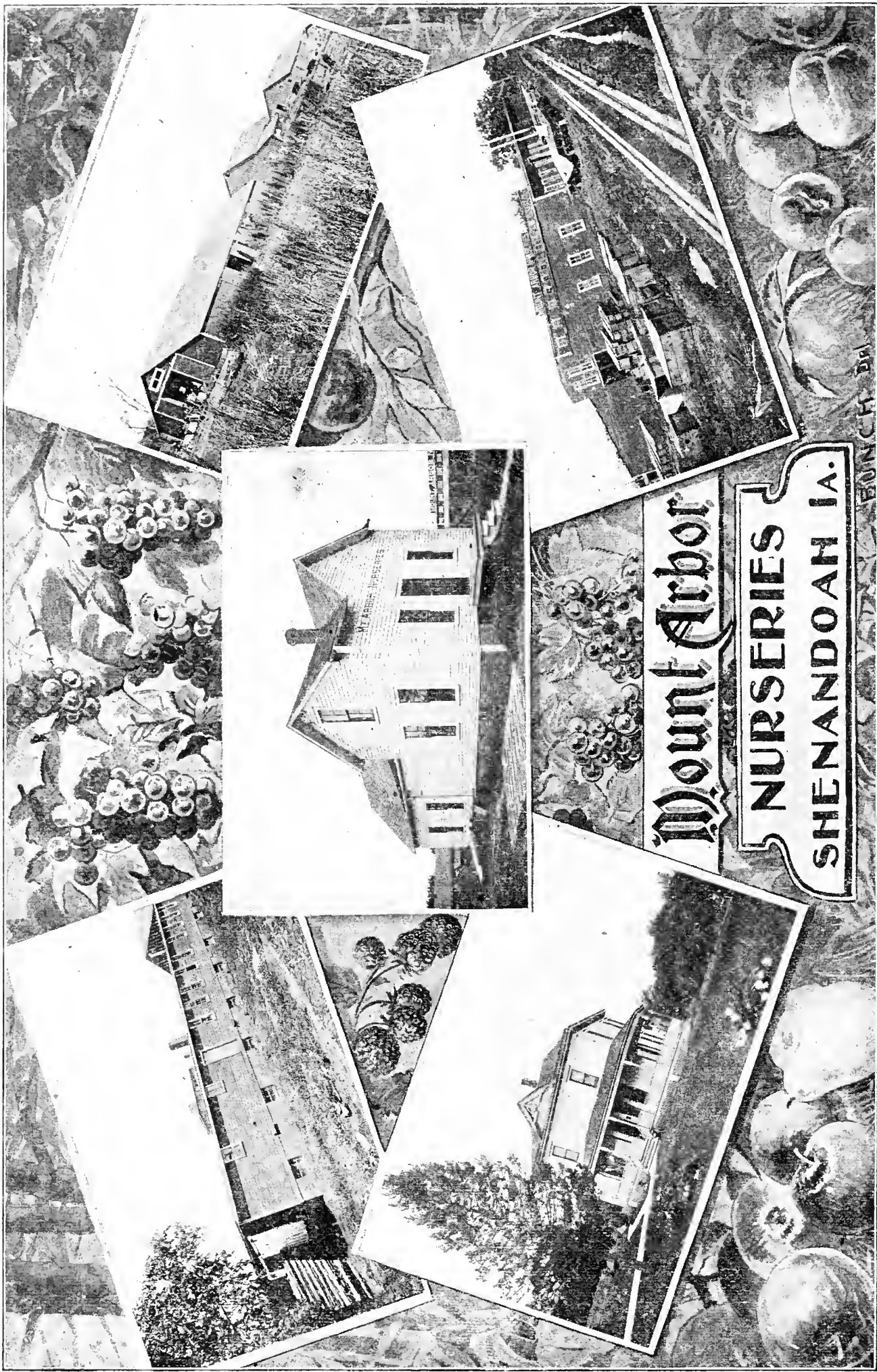
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The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"A good knowledge of physiological botany is required by the nurseryman."—T. W. Munson

Vol. XII.

ROCHESTER, N. Y., JANUARY, 1904.

No. 1.

OFFICIAL INSPECTORS.

DISCUSSED AT WASHINGTON—QUESTIONS OF MUCH IMPORTANCE TO NURSERYMEN OF THE COUNTRY.

Resolutions Declaring That It is Possible Now To Frame Inspection Laws So As To Protect Interests of Both Nurserymen and Fruit Growers—Conference with Nurserymen's Associations Solicited—Protection from Infested Surroundings.

The Association of Official Horticultural Inspectors met in Washington, November 17 and 18, at the Shoreham hotel. In the absence of the chairman, Prof. S. A. Forbes, the body was called to order by the vice chairman, Dr. J. B. Smith, of New Jersey. J. B. S. Norton, of Maryland, was elected secretary.

The report of the previously appointed committee on legislation was given by Dr. Smith. The committee made no formal report, but reported progress.

The questions announced on the programme were taken up for discussion as follows:

Question 1. "What provisions in our inspection law will be likely to prove unconstitutional if attacked?" The question was discussed by Messrs. Atwood, Scott, Norton, Rumsey, Burgess, Washburn and Alwood, and Dr. Alwood was appointed to draft resolutions. The subjects of fumigation, license, destruction of property and discrimination against parties in other states were taken up and discussed.

SHOULD BE NO DISCRIMINATION.

The following resolutions were reported by Dr. Alwood and were adopted:

Resolved, That it is the opinion of the Association of Horticultural Inspectors that no state law should contain any provision which in any way discriminates against nurserymen of other states.

Resolved, Further, that no state should make fumigation or other treatment of nursery stock a condition precedent to its admission into that state; but that a requirement that no stock shall be distributed within the state until it has been fumigated or otherwise treated, is just and proper whenever a similar requirement is made of local nurserymen.

Question 2 on the programme, "The attitude of Nurserymen's Associations toward inspection laws," was taken up for discussion. The reports of the American Association of Nurserymen's committee on the subject was read as published in the NATIONAL NURSERYMAN.

The subject was discussed by Messrs. Smith, Alwood, Scott, Atwood, Norton and Burgess. The discussion showed a general tendency of nurserymen and inspectors to coöperate

in the suppression of insect pests and plant diseases, although some friction frequently arises.

The question on the part which is taken by professional scientists in connection with the enforcement of inspection laws was discussed and the following resolution was adopted:

Resolved, That in the opinion of the Official Association of Horticultural Inspectors, the specialists employed under the crop pest laws of the several states ought not to be required to attend to the details of prosecution, either civil or criminal, which may arise through violation of these laws.

SCALE-INFESTED SURROUNDINGS.

The third question, "To what protection is a nurseryman entitled as against scale-infested surroundings," was discussed by Messrs. Symons, Alwood, Smith, Britton, Weed, Norton, Scott, Wilcox, Summers, and Piper.

The trend of the discussion was that it is hardly feasible to attempt to keep nursery stock free from scale with infested surroundings, but that the authorities in charge of the suppression of these insects should protect the nurserymen as much as possible against infested surroundings, and in some states the practice has been to commence cleaning up infested orchards and premises around nurseries. It was thought that, while it is necessary that nursery premises should be kept more clean than others, the nurserymen deserve protection from infestation from adjoining premises.

Question 4, "What is the status of fumigation in justifying the sale of nursery stock exposed to infestation," was discussed by Messrs. Engel, Britton, Mackintosh, Horton, Webb, Summers, Smith, Atwood, Burgess, Surface, Rumsey, Johnson, Symons, Weed and Felt.

It was the expression of the members that fumigation was the best safeguard we now have against infestation, but many thought an inspection by which visibly infested trees would be thrown out was advisable, since fumigation cannot always be made absolutely effective. Special care should be taken that the materials used in fumigation are of the proper strength, and if possible they had better be used under the supervision of competent authority. No agreement could be reached as to the acceptance of fumigated trees as being safe or equivalent to clean trees. The wording of some laws makes this impossible and there is no guard against imperfect work.

FUMIGATION FOR WOOLY APHIS.

The question of the effectiveness of fumigation against wooly aphis was discussed with the decision that it was a perfect safeguard except against the eggs of this insect which are not killed by it.

The question of what should be done in infested orchards was discussed, showing a wide range of recent experiences in the East with the lime and sulphur wash which is now being much recommended as the most effective treatment for scale

in orchards in the East. The effectiveness of this treatment against the leaf curl and other fungus diseases was brought out.

A motion was carried to continue the organization under the following officers: S. A. Forbes, chairman; John B. Smith, vice-chairman and J. B. S. Norton, secretary.

Various questions concerning San Jose scale and the use of the lime and sulphur wash were discussed by Messrs. Washburn, Weed, Surface, Scott, Piper, Smith, Summers, Felt and Alwood.

A motion was carried that the Association advise the use of the formula 1-2-4, in fumigating with hydrocyanic acid gas.

SUGGESTION OF FAIRER LAWS.

The following resolutions were adopted:

Whereas, During recent years the dissemination of certain species of insects and fungi on nursery stock has resulted in the rapid spread of injurious insect pests and plant diseases; and

Whereas, Many of the states of the United States and the Dominion of Canada have now passed laws designed to protect purchasers of nursery stock from injury and loss by reason of infested or diseased nursery plants, and

Whereas, The enforcement of these laws has been in some instances considered hurtful to the interests of nurserymen and has led to some antagonism; therefore be it

Resolved, By the Association of Horticultural Inspectors that while they consider that the enforcement of reasonable crop pest laws is imperatively needed, both for the protection of the nurserymen and the fruit growers, they also believe that it is now possible, in view of the large experience and data at our command, so to frame the inspection laws and regulations for their execution as to protect the interests of both the nurserymen and the fruit growers; therefore, be it further

Resolved, That we invite such conference with the official nurserymen's associations as will lead to better relations and, so far as practicable, to uniformity of practice on the part of the official inspectors.

Mr. Kotinsky of the Division of Entomology presented a review of a Russian paper on the inoculation of trees for the prevention of attacks by insects and other fungi.

THOSE WHO WERE PRESENT.

The following persons were in attendance at the meeting: Macintosh, Ala.; W. E. Britton, Conn.; Wesley Webb, Del.; H. E. Summers, Iowa; J. B. S. Norton, T. B. Symons, Maryland; F. C. Washburn, Minn.; C. M. Weed, N. H.; J. B. Smith, N. J.; E. P. Felt, N. Y.; G. G. Atwood, N. Y.; A. F. Burgess, Ohio; H. A. Surface, E. B. Engle, Pa.; W. B. Alwood, Va.; Rumsey, Johnson, W. Va. The U. S. Department of Agriculture was represented by Messrs. Scott, Hopkins, Wilcox, Piper, Marlett and Kotinsky. W. G. Johnson of the American Agriculturist was also present.

OPINIONS ON SUBSTITUTION.

The Rural New Yorker has been gathering some opinions of nurserymen on the subject of "Substitution," from which the following extracts are made:

A. H. Griesa, Kansas—I have had orders where half of the apples were Summer kinds; then I use my judgment and correct it by reducing the early and Fall kinds and increase the list of good Winter kinds. I think it is right, yes, more than right in doing so. Some agents sell on specialties, which is all right, but when it is the Rathbun blackberry, which like the wineberry, is an imposition in the West, they are not furnished if I have the filling of the order. When fruit trees or plants are ordered it is for the purpose of growing fruit. No one ever has or will make a living growing Rathbun or wineberry in the West. In flowers it is much the same; they are sold by pictures. The buyers many times do not know the hardiness or other quality of the plants they order. While there are instances of unreasonable substitution,

there are also unreasonable complaints on the part of buyers. I used to label each tree and plant true to name, but at delivery, those names being new to the buyer, he would set up a complaint of being cheated, while he had better kinds, as I know positively, than those he ordered. While it was a violation of contract, it was serving him far better than if he had just what he ordered. In many cases the nurseryman knows better than the buyer, but it is not always so, and if both understood each other better there would be a better feeling between them than now.

J. H. Black Son & Co., New Jersey—We prefer to substitute size rather than variety. In apples and pears it is very difficult to substitute, and we would certainly hesitate a long time before doing so except by permission. In peaches there are so many kinds that are so similar that it is very difficult to tell them apart, and to substitute one of these for another would be no damage to any one, and would be excusable but not advisable. To substitute sizes would be much better if substitution has to be resorted to at all. Our men are always told positively that they must not substitute at all without our instructions, and in our catalogue we reserve the right to substitute in extreme cases; yet we seldom do unless it is a very small number, and the order would be delayed by waiting until we hear from the customer.

Storrs & Harrison Co., Ohio—We suppose the main reason why nurserymen reserve the right of substitution on nursery stock, is because the majority of customers never send orders until time for shipment, and there is no time to correspond back and forth. After a variety is exhausted, it is impossible to supply more of that same kind. In our general price list we have always stated, and always expect to make the statement, that in case we are out of a variety ordered, another of equal merit will be sent in its place, unless the party ordering says no substituting, in which case we will refund the money, if we do not have the goods when order is filled. We never undertake to do any substituting on large orders for orchardists, who are putting out trees for profit. They usually know what they want, and want particular varieties, but we think that to the large majority of people who buy in small quantities for town lots or small orchards for home use, it makes no particular difference, for instance, whether they have one or the other of a dozen or more types of the Late Crawford Peach, if they have one that ripens about the same time, and there is practically but little difference in the dozen or more kinds, and this is true of most things in the fruit tree line. Customers order from descriptions in catalogue, and it makes no difference to the majority of them, provided they get a good variety that ripens about the same time, whether we substitute or not, and we get a great many orders where parties do not pretend to select varieties, simply leaving it to us to send what we think best, and if all planters would do the same with all nurserymen they would get better varieties than they do by making their own choice. We believe that this is perfectly honest and legitimate. We do not believe that any responsible nurseryman would substitute on orders from orchardists who are planting fruit for profit, for market, unless they have permission of the buyer to do so, while the large majority of small planters are perfectly satisfied, for instance, with either a Globe or Late Crawford Peach tree, with either an Ontario or Sutton Apple, and would much prefer to have nurserymen send them one or the other to returning their money.

The advice given to its readers by the Rural New Yorker is: "Order early. Know what you want before ordering. Send the order to several nurserymen for figures. If possible, go to see the stock before buying. Write 'no substitution' plainly on your order if you do not want it. Remember that a good tree costs more than a poor one, and is worth more, and that it never pays to buy a poor one."

AMERICAN POMOLOGICAL SOCIETY.

It has been proposed by President J. H. Hale and Prof. John Craig, respectively president and secretary of the American Pomological Society, to hold a special session of the society during the fresh fruit period of 1904 at the St. Louis Exposition. Sessions are regularly held biennially, the next being due in 1905.

PLANT TOO HEAVY.

**Note of Warning Sounded By Prominent Maryland Nurserymen—
Apple Seedling Craze May Make Cheap Trees—
Western Nurserymen Pushing Fast
— In the East.**

Among recent callers at the offices of the NATIONAL NURSERYMAN was Orlando Harrison, of J. G. Harrison & Sons, Berlin, Md., vice-president for Maryland of the American Association of Nurserymen. He had spent three weeks calling upon nurserymen in Pennsylvania, Ohio, Indiana, Illinois, Missouri, Iowa, Kansas and New York.

"I found many improvements at places that I visited seven years ago," said Mr. Harrison. "One cannot realize the increase in the planting of nursery stock during that time unless figures are made comparing the acreage. Whoever imagined the nurserymen would take such chances?"

"While many of the firms say that they have had large sales the past year, few will say that it was a successful year financially. Why? Because there were too many trees to go upon the market. There was more business than the nurserymen could economically handle. The increase in wages has been from 15 to 30 per cent.

"The nurserymen of the West seem to have a determination to advance and they are pushing fast. They have a wide scope for their energies in the treeless region and the prospect for selling many trees there is very good indeed.

"In spite of all the prospect for trade, the tendency is to plant about ten times the amount really needed. If I am correctly informed, one-tenth of the Apple seed ordered, if sown, will be too much. This Apple seedling craze may make cheap trees yet, because there will be a large quantity of piece root grafts that will be made short enough. While Plums are high, there have been quantities planted; the same is true of Cherries. The stock of Apple, Peach and Cherry that will come on the market for Fall of 1904 will be used by the trade without suffering, but the only safe way to get in that I can see is to plant about one-tenth the amount of last season's planting. If that is done, I think we will come nearer the mark.

"For our own selves we shall take our own medicine and plant less. We shall use the best grade of seedlings, cultivate better and try to grow more first-class stock, and less light grade and keep ourselves in reach of the situation. Then we can better protect ourselves in the handling of labor. It has been almost a certainty that for the last seven years we could make a profit growing trees; will it not require clever management to make expenses during the next seven years?"

"In the East there seems to be more of an uncertainty than in the West, because the Western farmer has made money fast for a few years and has not spent it yet. If we get back of a basis of planting where we were seven years ago, we should be safe. As the nursery business does not stand still, but is either going right or wrong—selling at a big profit or burning the whole—if we plant less we may be able to keep right yet."

BLACK BEN DAVIS AND GANO.

A committee of the Missouri State Horticultural Society, composed of J. C. Whitten, J. C. Evans, and W. T. Flournoy, has done good service for that society in presenting a report of careful investigation of the origin of Black Ben Davis and Gano Apples in an endeavor to ascertain whether they are distinct varieties. Lack of space prevents our publishing the report; but we suggest that those directly interested may obtain it in the proceedings of the Missouri society upon paying the membership fee for one year. The committee arrives at this conclusion:

"After finding no differences, either in the fruit or in the trees, by which they can be separated, your committee is forced to conclude that the Black Ben Davis and Gano are one and the same variety; and that their having been regarded locally as being different sorts is only another case where isolated trees of a variety, having been brought to notice in somewhat widely separated neighborhoods, have each for this time been given different names and each been honestly regarded as being of distinct seedling origin."

BUFFALO BILL RECLAIMING LAND.

Colonel W. F. Cody, better known as "Buffalo Bill," is preparing to put through a big reclamation project in Wyoming, which involves the segregation of 110,000 acres of land on the north bank of the Shoshone River, near Cody. This will be reclaimed by irrigation, an enterprise that will involve the expenditure of not less than \$1,000,000. Colonel Cody has completed one canal for the irrigation of a concession of 40,000 acres, and is anxious to get the larger project under way.

Recent Publications.

Country Life in America for January is a large number of this most beautiful magazine devoted to all the work and play of the outdoor world. Among the leading features "Country Homes of Famous Americans" deals with John Greenleaf Whittier's home life in New England; "How to Make a Living from the Soil" is a second article in a vitally interesting series by L. H. Bailey. "A Hundred-dollar Greenhouse," maintained at a cost of \$25 a year, "A \$4,500 Suburban Home," made without an architect and beautiful grounds, "Violet-growing as a Business" made successful from small beginnings without capital, and "How to Build a Rural Telephone," by the farmers themselves in an organized company—all are truthful accounts of actual experience, with many photographs that in themselves tell the stories.

The World's Work begins the new year with a number that interprets significant phases of contemporary activity. A first hand view of "Colombia, the Government, the Country and the People" is obtained in an article by Thomas S. Alexander, who has just returned after four years of exciting adventure in that revolution ridden land. The true inwardness of the Panama secession is revealed by John M. Williams. "The Main Plan of the Fair" by Edward Hale Brush, shows, with many pictures, how the sculptors the artist and the landscape engineer will unite at St. Louis. "Two Directors of Monopoly," shows that monopoly of natural products and of franchises for public service is fast becoming complete. The Department of the March of Events, the Work of the Book World, Books for young Children, and Among the World's Workers complete a notable issue.

NURSERYMAN APPOINTED

On Board of Control In Virginia—Hope That License and Inspection Laws Will be Changed [By Legislature This Winter—W. T. Hood's Efforts for Reduced Charges.

Concerning the Virginia license and inspection law, W. T. Hood, of Richmond, Va., says in a communication to the NATIONAL NURSERYMAN:

At the Virginia horticultural meeting held at Lynchburg, December 1902, the question was very much agitated, and several of the fruit growers seemed to think that they did not have the relief that they should have on account of the state law not being enforced as they thought it should be. Our state entomologist stated that they did not have the money to carry on the work as it should be, as the state had only been appropriating \$1,000 per year; and, I think, for 1901 an additional \$1,000, and for the year of 1902 the state auditor considered there was not any appropriation, but the state institution at Blacksburg had furnished the money for inspection of the nurseries of the state for 1902, and what other inspection that they could do for the orchardist when called on. The fruit growers seem to think that the nurserymen should be taxed to pay their inspection also; one of the nurserymen present, who was also a fruit grower, thought the nurserymen should pay a tax of \$25 each for the inspection of their nurseries. (I will say there were very few nurserymen present at the meeting.)

MR. HOOD OPPOSED IT.

I opposed the motion, as most of the nurseries in the state grew only a few trees, and they could not afford to pay this special tax; but if they are going to tax the nurserymen, they should not tax them more than \$5 each, and if the inspection was more than one day at a nursery, the nursery should pay a per diem for each day's inspection above one day. I also thought that the state should make a much larger appropriation for the work, and that a committee was appointed to go to Richmond to see if there could not be a larger amount appropriated for the inspection work.

OPPOSED TAKING OUTSIDERS.

Four or five nurserymen met the committee. A couple of papers were drawn up by the fruit growers or some one else. One of the papers was by one of our state senators, who is one of our largest fruit growers, and in his paper he wished to tax the nurserymen in the state, and those that do business from outside the state. I opposed the taxing of those outside, also did not suppose it could be done as it had been decided by Supreme court that it could not be done; but we spent part of two days and one night with the committee trying to make what change we could in the old bill, and there as a clause put in that each nurseryman of the state should pay \$10 for inspection, and that they would ask the legislature to appropriate \$6,000 additional for the work of inspection. This bill was not presented, but the present one was passed at the last days of the legislature, and it has not been satisfactory to nurserymen who handle agents in the

state, nor to those that have to buy from outside the state such stock as they are short of.

HOPE FOR CHANGE IN LAW.

We hope there will be some change in the law made this Winter. At the Virginia State Horticultural meeting which met in Pulaski City, December 4th, the question was again agitated by the fruit growers and what few nurserymen were present (which I think was not more than six.) While the inspectors have about 100 nurseries to inspect in the state, there are few of them that attend the horticultural meetings, unless held in their immediate neighborhood.

"Our state entomologist has been criticised by those outside of the state, also those of us inside the state have not been satisfied with the law. I will say, that for myself I think that they have been of great help both to the fruit grower and the nurserymen, and while the nurserymen of the state have had very heavy losses from what they term crown gall on apple trees, I think in the end it will work out to our good if the law is enforced; or, in other words, if the people can be educated to know what a good tree is, and will be willing to pay a fair price for a good tree instead of buying the cheap trees that is sold in this state by most nurserymen.

NURSERYMAN ON THE BOARD.

"We have succeeded in having a nurseryman, J. B. Watkins, appointed by the governor on the Board of Control of the Blacksburg Institution which passes on the inspection work of the state, and hope that he will look after the interests of the nurserymen. While I hope that he may have some changes made, think it is very doubtful if he will be able to have all of the tax taken off."

NO AUTHORITY TO DESTROY.

According to a recent decision by Attorney General U. S. Webb, the state commissioner of horticulture of California, has no authority to seize and destroy trees and vines in orchards or vineyards, which may be affected with contagious or infectious diseases. He states that the act of 1897 providing for county boards of horticulture and vesting them with authority to abate nuisances has no reference to tree or vine diseases, but applies to insect pests, such as codling moth and others.

WESTERN WHOLESALE ASSOCIATION.

At the semi-annual meeting of the Western Association of Wholesale Nurserymen, in Kansas City, last month the necessity of providing a fund to punish dishonest dealers and salesmen was urged by A. Willis, Ottawa, Kan. It was reported that there is a growing demand for fruit trees on the Pacific Coast and that the number of persons growing fruit exclusively is increasing. It was also reported that farmers generally are giving more attention to fruit culture and are getting good prices for apples, peaches and plums.

F. H. Stannard, Ottawa, Kan., was elected president; E. R. Taylor, Topeka, Kan., vice-president; E. J. Holman, Leavenworth, Kan., secretary-treasurer.

IN GEORGIA NURSERIES.

**Nearly Two Hundred Establishments with Ten Million Trees—
Distribution of Kinds—Marietta the Largest Center—
Surplus of Peach Stock Anticipated.**

Wilmon Newell, state entomologist of Georgia, sends us the following record of the nursery business in that state:

The nursery business of Georgia has shown a marked increase during the past year, both in number of nurseries and in number of trees grown.

During the season of 1902 there were but 108 nurseries in the state, whereas since August 1, 1903, the state department of Entomology has inspected and issued certificates to 191 nurseries, containing a total of 10,514,000 trees. The 191 nurseries are distributed as follows: Upper region (34° to 35° N. Lat.), 90; middle region (33° to 34° N. Lat.), 91; southern region (below 33° N. Lat.), 10.

The fruit trees grown in these nurseries are as follows: Peach, 8,370,000; Apple, 990,000; Pecan, 788,000; Plum, 216,000; Pear, 82,000; Cherry, 40,000; Grape, 15,000; China trees, 7,000; Mulberries, 6,000; total, 10,514,000.

These figures do not include six nurseries, containing 236,000 trees, which were found infested with San Jose scale. It is needless to say that none of these trees will be allowed upon the open market. Inasmuch as the six infested nurseries contained sufficient San Jose scale to infest every important commercial orchard in Georgia, the wisdom of having a thorough system of nursery inspection is self-evident.

Of the total number of peach trees, 8,370,000, we estimate upon a safe basis that approximately one-third or 2,790,000 are available for planting the coming winter.

Eighty-four nurseries located outside of Georgia have complied with the Georgia laws and have made arrangements to ship nursery stock into this State during the coming season. As these are for the most part large nurseries and as not over 25 Georgia nurseries ship outside the state to any appreciable extent, it is evident that the amount of stock imported will considerably exceed that shipped out. In fact, we estimate that the excess will far more than balance any salable stock left in the Georgia nurseries. 3,000,000 is therefore a safe estimate of the number of peach trees that will be planted in Georgia this Winter.

Approximately 5,580,000 peach trees (dormant-budded, grafted and small June-budded stock) will be carried through to next season by the nurserymen, all of which will be available for the season of 1904-'05. Some of this stock will of course be lost through faulty handling, disease, insects, etc. but as the above figure does not take into account the June, bud crop of 1904—which will more than off-set any loss due to disease, etc.—there will be between five and six million peach trees for sale by the Georgia nurseries next year.

It seems very improbable that the planting of peach trees in commercial orchards will reach these enormous figures in 1904-'05, hence a large surplus of stock, with correspondingly low prices, may be expected.

Of the 990,000 apple trees probably one-fourth or 250,000 will be planted this Winter.

Marietta is the largest nursery center in the State, having 32 nurseries, containing a total of 2,887,000 trees. Concord, Ga., ranks second as a producer of nursery stock, having three nurseries containing 805,000 trees. Reeves Station ranks third with six nurseries and 665,000 trees, while Rome stands fourth with five nurseries growing 391,000 trees. Of the eight most important nursery towns in the State, six are located in North Georgia and two in Middle Georgia.

ALBERT BROWNELL.

Albert Brownell was born April 24th, 1854, near Buffalo, N. Y. He removed to Iowa at the age of 21 and spent nine years in that state and Missouri in farming and teaching. In the Spring of 1884 he decided to go still farther west, locating at Albany, Oregon, where in 1888, together with the late J. A. Hyman, he established the Albany Nurseries. After three years of profitable business, Mr. Hyman retired from the firm.

Mr. Brownell assisted in organizing the Oregon Association of Nurserymen, serving it several years as president and secretary and when the Pacific Coast Association of Nurserymen was formed to succeed the old Oregon Association, was unanimously elected its secretary and treasurer.



ALBERT BROWNELL.
Albany, Oregon.

TRADE MARK CASE DISMISSED.

The Sarcxie, Mo., Record, of December 4, says:

The big trade mark case brought by Stark Bros. Nursery & Orchard company against James B. Wild & Brothers of Sarcxie, Mo., for alleged infringement of trade marks on the following named varieties of Apples, namely—Black Ben Davis, Apple of Commerce, Champion and Senator—has been voluntarily dismissed by the plaintiffs.

The petition of Stark Bros. was filed by their attorney, F. T. F. Johnson of Washington, D. C., and was quite lengthy, covering every detail. The suit was given great publicity, particularly in some of the trade journals. The case was set for trial on December 2, 1903, but plaintiff's attorneys early "found their case not tenable" and the defendant was directed to recover the costs of the case from the plaintiff.

The varieties in question were not originated by Stark Brothers as some supposed. The Arkansas State Horticultural Society has adopted resolutions condemning the re-naming of Arkansas seedling Apples and adopting the local names by which these Apples are known in the State. All persons interested should procure bulletin 49 of the Arkansas Experiment Station in which this subject is discussed.

The Alabama Nursery company is arranging to build a warehouse on a strip of land at Mercury, purchased by the firm a few months ago.

The National Nurseryman.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.
NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.
EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, F. H. Stannard, Ottawa, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.
SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.
SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.
PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Organized at Portland, Ore., January, 1903.

THE NEW YEAR'S PROMISE.

The opening of a new year brings renewed hopes for a continuation of the prosperity which has characterized trade in all lines during the year just closed. Nurserymen have reason to look forward confidently, provided due caution is exercised in all undertakings. A note of warning is sounded in another column by an eastern nurseryman on the subject of over-planting.

Distinct advances have been made during 1903 in several features of the nursery business. A lively interest in trade topics was manifested at the Detroit convention of the American Association and a progressive spirit was evinced by all the members. Southern nurserymen are enthusiastic over plans for the coming convention in Atlanta and it is hoped that there will be a representative attendance. The South has made great progress in fruit growing and the nursery industry since the last convention of the Association in that section of the country.

There is promise that in matters of legislation an understanding may be reached whereby the interests of the nurseryman may be cared for as well as those of the fruit grower.

The nurseryman will progress in proportion as he keeps informed upon topics pertaining to his trade and keeps up to the times.

IMPORTERS' ASSOCIATION.

The importers of the United States have determined that in order to preserve their commercial right it is necessary for them to form an association. To that end a large number of importers have signed a call for the formation of an association. William Meyer, of New York, city has consented to act temporarily as secretary. Among those who have signed the call are August Rolker & Sons, Charles F. Meyer, J. C. Vaughan, Suzuki & Iida, Stumpp & Walter Co., H. Berkhan, Henry & Lee and H. H. Berger.

Acting as a unit, the power of thousands of importers of the United States to establish true market values will, unquestionably, be strong enough to insure the respect and consideration of appraising officers.

In order to be effective, the importers' association must be strong in numbers. Every importer in the country is interested in securing a fair prompt and impartial administration of the custom law, and every merchant, large and small, engaged in the importing business, should, regardless of political affiliations, as a matter of pride as well as for self-interest, join the proposed national association, and thus make it a power in the land.

Such an organization must prove potential in tariff legislation, and will command the respect and proper consideration of those highest in authority.

INSPECTORS FAVOR FAIR LAWS.

We are pleased to note the sentiment that was expressed in resolutions adopted by the Association of Official Horticultural Inspectors at the recent meeting in Washington, D. C., as reported in another column of this issue. It was conceded that, in the light of experience, laws could be framed that would protect the interests of the nurseryman as well as

the fruit grower. To that end a conference is suggested between the representatives of that association and the nurserymen's associations. We think this is an excellent idea.

It will be seen that the inspectors discussed topics that are of direct interest to the nurserymen. There is evidently intention on the part of the horticultural inspectors to recommend regulations which will not interfere with the conduct of the nursery business.

That there is room for much improvement is repeatedly shown in the experience of nurserymen at widely separated points, and by the determination of the American Association of Nurserymen at its last convention to take such action as shall bring about amended laws. It is also shown by such an incident as that of a western nurseryman who sold trees in the state of Virginia and then was prohibited from sending them into Virginia by the regulations of that state, in the meantime selling them at a much higher price in the West. So strong was the protest of the Virginia nurserymen affected that, we are told, a special red label was issued by the Virginia inspection authorities to the western nurseryman in question, admitting his trees into the state when no others could get in; though, it is said, the trees even then were not shipped, because of the peculiar circumstances under which they were to be sent.

Whether this statement is borne out by the facts or not, it is nevertheless true that, with more attention to the interests of all concerned, laws could be framed so that there would not be the tendency toward evasion that must result from unduly restrictive measures.

THE BEST PÆONIES.

We have received several lists of the best 12 varieties of Pæonies. They agree of course, only in part. The American Pæony Society is at work on a revision of the lists of Pæonies. In the meantime, E. J. Shalyor, Wellesley Hills, Mass., very appropriately remarks:

"My proposition is to have a number of sets made by the best judges—one set from the best collections near New York, one from those near Boston, and a couple in the West, and these with G. C. Watson's list, taken as the ground work for selecting a final list. Then begin and select the varieties which appear in the most lists, and so on until the twenty-five were had."

A matter of greater consequence at present is the revision of all lists so that the nomenclature may be established according to an accepted standard. This work is to be undertaken by the American Pæony Society. It has been decided to plant three plants of each variety from the eight or ten principal growers of the country, in Highland park, Rochester, N. Y., under the care of Assistant Superintendent John Dunbar, of the Rochester Park department, for purposes of comparison. The judges of the American society are to view these plants and make a report as to nomenclature. The plan is favored by Mr. Peterson, Mr. Thurlow, Mr. Charlton and others.

TEXAS NURSERY CO., SHERMAN, TEX.—Enclosed please find \$1 subscription to your paper. We are well pleased with same."

NEW YORK STATE NURSERY.

The Growth of Forest Seedlings to Replace Denuded Portions of Adirondacks Could Not Procure Sufficient Seedlings in America or Europe.

After much halting New York state has at last developed a policy for the Forest Preserve which promises to be successful, says the Brooklyn Eagle. The great problem of maintaining the Adirondack woods is to be met, if Commissioner Middleton has his way, by the maintenance of state nurseries, in which to grow the seedlings to plant out the great denuded areas in that region. In the Spring of 1901 a start was made along this line by the purchase of young trees from the Cornell experiment station, but in the long run it has been found impossible to obtain sufficient seedlings either in this country or in Europe. So in a small way the Forest Fish and Game Commission has gone about demonstrating that they can be grown by the state at a minimum cost. The first planting of seed has recently been made at a small nursery near the state fish hatchery at Saranac Lake station.

The great forest fires of last May, by which thousands of acres of timberland were devastated, has emphasized the necessity of some policy and some plan for saving the forests.

Much of the damaged land can be bought for a dollar or two an acre. It can be replanted for two or three dollars, and in fifty years will grow a stand of timber worth \$50 an acre, a profit of a dollar a year on an investment of \$5, or 20 per cent. That leaves a margin for losses.

NOT ALL BEN DAVIS.

At the annual meeting of the Missouri Horticultural Society, at Columbia, December 8-10, statements of the leading growers as to the most profitable varieties to plant in this state showed that Ben Davis and Gano still lead as money-makers, but that there is an accelerating tendency to add to this list varieties of high quality, such as Jonathan, York, Grimes, Winesap, Wealthy and Maiden Blush, the last two being the leading Summer varieties. For the home orchard a much larger list was named.

TO FERTILIZE THEIR NURSERIES.

Jackson & Perkins Co., Newark, N. Y., received from Kansas City, late in the Fall, two car-loads of young cattle which they will fatten during the Winter and resell next Spring. While they, of course, hope to make a profit on the transaction, the chief object is to provide an abundant supply of manure for use in their nurseries. The cellar has already been dug for a large new cattle barn which will be completed next season. This will provide enough additional room so that one hundred and fifty head can be handled each season. It is this liberal fertilization of the land together with high cultivation that have given to the Jackson & Perkins Nurseries the high reputation which they enjoy.

—THE NATIONAL NURSERYMAN—a business journal for business men. One dollar buys a complete volume.

Among Growers and Dealers.

W. P. Robinson, Atlanta, Ga., died recently, aged 81 years.

Stark Brothers nursery, seven miles from Huntsville, Ala., has been discontinued.

W. A. Peterson, Chicago, has been elected a director of the State Bank of Chicago.

James M. Kennedy, Dansville, N. Y., called upon Rochester nurserymen last month.

The West Coast Nursery Co. has been established by H. A. Curtis at St. Petersburg, Fla.

J. J. Harrison, of Storrs & Harrison Co., Painesville, O., with his daughter, are in California.

M. J. Wragg, Wauke, Ia., has been re-elected a member of the Iowa State Board of Agriculture.

The Jackson & Perkins Co., shipped 250,000 rose plants this season from their California nurseries.

George Barter, Attila, O., is not in the nursery business. His name appears in the florists' directory.

J. E. Carothers has changed his address from Stillwater, Minn., to Argentine Station, Kansas City, Kan.

The P. J. Berkman Co., Augusta, Ga., have formed a company for the raising of cattle in the vicinity of Augusta.

Mr. McGill, of the Oregon Nursery Co., visited Topeka and other points in the Mississippi Valley last month.

Silas Wilson, Atlantic, Ia., is chairman of the civic improvement committee of the Iowa State Forestry Association.

The forty-ninth annual meeting of the Western New York Horticultural Society will be held in Rochester, January 27-28.

The first annual meeting of the Agricultural Experimenters' League of New York will be held at Cornell University, January 8-9.

Prof. Charles S. Sargent, of the Arnold Arboretum, called upon Rochester Park officials on his tour around the world last month.

H. W. Jenkins, proprietor of the Walnut Hill Nursery at Boonville, Mo., has moved to Plattsburg, where he will grow trees and plants for E. Mohler.

The Dogwood Hardy gardens have been incorporated at Dogwood, N. J., with a capital of \$25,000 by H. F. Smith, C. Pelrey Walker and F. E. Williamson.

H. L. Bird, of the West Michigan Nurseries, Benton Harbor, Mich., called on Rochester nurserymen on his way home from New York just before the holidays.

Charles Fremd, Jr., Rye, N. Y., found among his Christmas presents a new boy who arrived December 26th. Mr. Fremd is right in the nursery business.

Twenty-five thousand trees have been planted in the Kansas City streets under the supervision of the city and 15,000 planted privately exclusive of the parks.

Fire recently destroyed rare plants to the value of \$10,000 in the Missouri Botanical Garden and trees, shrubs and buildings to the value of \$50,000 at Graceland Cemetery, Chicago.

Stark Brothers Co., Louisiana, Mo., use a tree digger of their own make, drawn by eight strong mules, which gets practically all the roots, allowing the purchaser to trim as he chooses.

Orlando Harrison, Berlin, Md., made a trip to Western points before the holidays. He reports trade outlook in the West as especially good and prospects of increase in prices of nursery stock.

The Huntsville Wholesale Nursery company has purchased the Motz farm of eighty acres two miles from Huntsville, Ala., and will establish thereon warehouses and shipping headquarters.

J. M. Underwood, of the Jewell Nursery Company, Lake City, is one of the Louisiana Purchase Exposition commissioners from Minnesota. Mr. Underwood is also chairman of the legislative committee of the Minnesota Horticultural Society.

A four-year-old Wagner apple tree in the Hood River valley, Oregon, that yielded more than four bushel boxes of apples this season which sold for \$2 per box, came from a Western New York nursery. This from the East!

Carl Purdy, Ukiah, Cal., will endeavor to produce bulbs of Tulips Hyacinths and Narcissus equal to Holland grown. The U. S. Department of Agriculture has furnished to him quantity of stock obtained by the government from Holland.

A carload of bulbs, seeds and plants, principally from the Royal Seed Establishment, of Reading, England, and Carter & Co., of London, arrived late in November in St. Louis for planting about the English pavilion at the Louisiana Exposition.

The Muskogee Nursery Company, Muskogee, I. T., has been incorporated with a capital stock of \$20,000. The officers are: J. L. Knisley, president; Benj. Martin, Jr., vice-president; S. E. Gidney, secretary, and James T. Perkins, treasurer.

Orlando Harrison, of the firm of J. G. Harrison Sons, Berlin, Md., from the Atlantic coast, met A. W. McGill, of the Oregon Nursery Company, from the Pacific Coast, at Topeka, Kansas, and delivered to him a quantity of Apple seedlings to go to the Pacific coast.

E. F. Stephens, Crete, Neb., manages thirty orchards extending from Eastern Nebraska to the Wyoming line in Platte Valley. He expects to work in Wyoming next season, perhaps also in Montana. He does ornamental work also for the Burlington railroad system.

The commissioner of parks, New York city, has awarded to Hitchings & Co. the contract for the completion of the range of propagating houses at the nurseries on the east side of the New York Botanical Garden, together with a series of propagating pits at a contract price of \$7,593.

It is stated that the Good Nursery Co., Springfield, O., with a capital of \$60,000 proposes to establish a rose farm of 3,000 acres in the delta section of the Mississippi. The promoters are John M. Good, L. Verney, C. T. Ridgely, Edwin S. Houck, C. W. Welsh, and L. P. Job, all of Springfield, Ohio.

H. M. Stringfellow, of root pruning fame, looks with contempt upon the use of dynamite in tree planting. He says: "With common sense methods New England is destined to be the apple orchard of Europe, but never will be if 20-inch drilled holes and a stick of the dangerous dynamite is a necessity for every tree."

E. Runyan, Elizabeth, N. J. is organizing a company to be incorporated under the laws of New Jersey, for the purpose of operating in Cuba, to act as agents for American goods, and to grow tropical fruits in that island. It is also proposed to grow nursery stock until such times as the fruit plantations come into bearing.

Much has been said in favor of thinning fruit on apple trees. President T. B. Wilson, of the New York Fruit Growers Association, says: "When there is a general crop of apples and the crop, or set, is very full, so that the chance for small fruit is very great and widespread over the country, I think it would pay to thin to such an extent as to insure good-sized fruit. Aside from this I do not think it would pay, only for the protection of the tree."

NOT IN NURSERY ROWS.

In the F. R. Pierson Nursery at Scarborough, N. Y., instead of the familiar parallel rows, one finds irregular and picturesque groupings of stock so planted as to set forth the full character of each subject in decorative effect, the taller material in the background and the low in front, skirting well-built, winding driveways from which customers may inspect the stock under best conditions and make personal selections without leaving their carriages. For a nursery catering to a cultured community, says American Florist, this method impresses one as eminently sagacious and practical and we are assured by Mr. Pierson that it pays in every way, the massed plantings being cared for at even less expense than when laid out on the usual parallel-row plan.

APPLE STOCKS IN NORTH.

**For Best Results a Root Must Be Used Vigorous Enough to
Strike Out Strongly the First Season After
Grafting — *Pyrus Baccata*.**

Following is a digest of a paper read before the Minnesota Horticultural Society, by Roy Underwood, secretary of the Jewell Nursery Co., Lake City, Minn.

"Here in the North it has come to be a pretty generally accepted fact that in an Apple tree a hardy root is quite as important as an early ripening tendency of wood and a tough quality of bark. A chain is only as strong as its weakest link, to follow the old adage, and an orchard tree that may be perfectly hardy above ground, but that is grafted on a root of inferior hardness, is a successful tree only so long as its root withstands the extremes of our climate. Such a tree will thrive until it meets with one of our test Winters, accompanied by bare ground and protracted zero weather; then, unless one is philosophical enough to inquire below the surface of things, he is apt to condemn the variety when in fact he ought to 'roast' the tree man.

"The recent agitation that has arisen here in the West over the question of using *Pyrus Baccata* stocks to obtain hardier and better trees has had its due effect among our local growers, but the present scarcity of the seed makes it yet impossible to conduct experiments on an extended scale. But the effect has not been lost, as it has brought to light for discussion and experiment the comparative merits of true Crab seed and that of the commercial Apple. Many of our hardy Crabs and hybrids, such as the Minnesota, Orange, Early Strawberry, etc., have been pressed into service, and with many of them, notably the stock produced from the seeds of the Orange, a superiority in point of vigor has been found to characterize both the root and the top of the tree when grafted. We have recently experimented quite extensively with stocks from the Siberian Crab, which is nearly akin to the *Pyrus Baccata*; so far as we have yet been able to determine, it has shown no marked superiority over some of the other more common Crabs, but we do not feel that its test has yet been of sufficient duration to give a safe basis for judgment. Its small size, regular bearing, and a generally full quota of seed would make it a good variety for practical purposes.

"From the nurseryman's standpoint, there is one thing of which we feel certain; for best results in the North a root must be used that is vigorous enough to strike out strongly the first season after it is grafted. That is perhaps the most critical time in the life of the young tree, for if it is feeble on the approach of its first Winter, it is apt to come out in the Spring with only enough vitality to dally through its second Summer, or succumb altogether. If this premise is correct the obvious conclusion is, that to determine the best Apple stock for the northern grower we should first assemble the hardiest stocks on our list, and then select from these, the one showing the greatest amount of vital energy. In this way we may some day stumble on a stock of which we may conscientiously say, 'there is none better.'"

Long and Short.

Peach trees are offered by C. W. Stuart & Co., Newark, N. Y.
For Pear trees apply to South St. Louis Nurseries, St. Louis, Mo.
Strawberry plants are a specialty with H. W. Henry, La Porte, Ind.
Nurserymen's grafting knives are made by Maher & Grosh Co., Toledo, O.

Two good grafters are wanted by the Stuart Pecan Co., Ocean Springs, Miss.

Deming's sprayers, made at Salem, O., are declared satisfactory for every purpose.

A special list is announced in this issue by the Fraser Nursery, Huntsville, Ala.

Hardy trees and shrubs are a specialty with C. Eschweiler, Oudenbosch, Holland.

Greenhouse material of all kinds is provided by S. Jacobs & Sons, Brooklyn, N. Y.

H. M. Simpson & Sons, Vincennes, Ind., has a special Spring list in another column.

W. T. Hood & Co., Richmond, Va., offer in another column a surplus list for Spring, 1904.

Evergreen and forest tree seedlings are specialties with R. Douglas' Sons, Waukegan, Ill.

The new blue conifera *Retinispora Sanderi* may be obtained of Henry A. Dreer, Philadelphia.

Youngers & Co., Geneva, Neb., has a surplus of Apple trees, root grafts and forest seedlings.

At Geneva, N. Y., is a fine stock at low prices offered by Whiting Nursery Co., Boston, Mass.

Fruit and ornamental stock and the Common Sense cultivator are offered by George Peters & Co., Troy, O.

The largest nurseries in Tennessee are those of the Southern Nursery Co., which has 500 acres in nursery stock.

North Carolina Mountain natural Peach seed may be obtained of J. Van Lindley Nursery Co., Pomona, N. C.

A mid-winter bargain offer is made in another column by the Chattanooga Nurseries, Chattanooga, Tenn.

August Rolker & Sons, 31 Barclay Street, New York, have Raffia fibre and nursery stocks, fruit and tree seeds.

Apple and Pear are ready, in surplus stock, for Spring shipment from Pioneer Nurseries Co., Salt Lake City, Utah.

The Phoenix Nursery Co., Bloomington, Ill., has a complete line of fruit and ornamental nursery stock for Spring shipment.

Elberta June bud Peach trees, 200,000, are offered for immediate shipment by Chickamauga nurseries, Chattanooga, Tenn.

A Caldwell water tank will hold everything put into it and last a lifetime. It is made by the W. E. Caldwell Co., Louisville, Ky.

Apple, Standard Pear, Dwarf Pear, Cherries, Plums, Peach, Grapes, small fruits and ornamentals are offered by A. Willis, Ottawa, Kan.

W. B. Cole, Painesville, O., believes that his prices will interest nurserymen. He offers *Deutzia* and *Privet* at less than cost of imported plants.

Myrobalan Plum stocks and a choice list for nurserymen are attractions offered in another column by Thomas Meacham & Sons, Inc., Dreshertown, Pa.

Special attention is called to the stock of the Storrs & Harrison Co., Painesville, O., for Spring of 1904—Apples, Pears, Cherries, Plums and Peaches; Grape vines, roses, shrubs and importations from Holland, and descriptive catalogue is sent free to the trade.

Among recent publications received are the following: "Cherries and Cherry Growing in Iowa," Ames, Iowa; U. S. Experiment Station Record, Washington, D. C.; "Should Apples Be Thinned," Geneva, N. Y.; "The Apple in Cold Storage," U. S. Department of Agriculture; catalogues of the Willis Nurseries, Ottawa, Kan.; California Rose Co., Los Angeles, Cal.; Mt. Arbor Nurseries, Shenandoah, Ia.; Pioneer Nurseries Co., Salt Lake City, Utah; Ottolander & Hooftman, Boskoop, Holland.

WORSE THAN THE TREE AGENT.

"I know of an instance," says W. F. Allen, of Maryland, in Rural New Yorker, "where a western grower furnished a large order of plants. The purchaser after receiving the plants, made complaint that they were in poor order, and would not grow. Being late in the season, and the nurseryman having plenty of the varieties first ordered, he refilled the order entire. Some time during the following Summer, the nurseryman had occasion to be in that part of the country and visited the customer under a nom de plume. He found there were two complete settings of the varieties he had filled for the party, and asked why the varieties were not all planted together? He stated that, after setting out the plants he had first ordered, he wished to plant more, and sent back and had his order refilled. As a matter of fact, the plants were all growing vigorously.

"The nurseryman brought in a bill for the first plants which were condemned, his railroad expenses, and \$10 per day for his time; and collected same. It is hard to tell how often we are imposed on in this way, as it is not always convenient to look into the matter. I do not think that a large portion of the customers would do this; and yet there are a few who would practice it in order to get extra plants free."

SPITZENBURGS AND BEN DAVIS.

The Ben Davis, according to the American Apple Growers Association, constitutes one-half of the reported crop of the country. But not all the crop was reported.

"The entire apple crop of the famous Hood River valley, in Oregon," says J. G. Curtis in Rural New Yorker, "was sold early in September to the local dealer at the following prices per bushel box, f. o. b., cars at Hood River: Spitzenburg, \$2; Newtown Pippin, \$1.85; Ben Davis, 85 cents. The buyer only contracts to take 3,000 boxes of Ben Davis, while of the other two varieties he takes the entire product of the valley that is of shipping quality. Of course there is a reason why the Hood River grower gets \$6 per barrel while the Western New York grower only gets \$2 per barrel, and it is chiefly because he grows good apples, keeps them good by thorough spraying, and then has them packed uniformly so that a box of Hood River apples is a staple article in any market to which it may be sent.

"Most of this fruit goes to Asiatic ports, since it can be

carried across the Pacific at a cost of 20 cents per box as compared with 50 cents per box to New York and \$1.06 to either London or Liverpool via New York. It is interesting to note that there are practically no Ben Davis being planted now in that section, although the orchard acreage is increasing rapidly, and I believe I have learned some of the reasons why Oregon Spitzenburgs retail on Broadway at "two for a quarter" each year at holiday time."

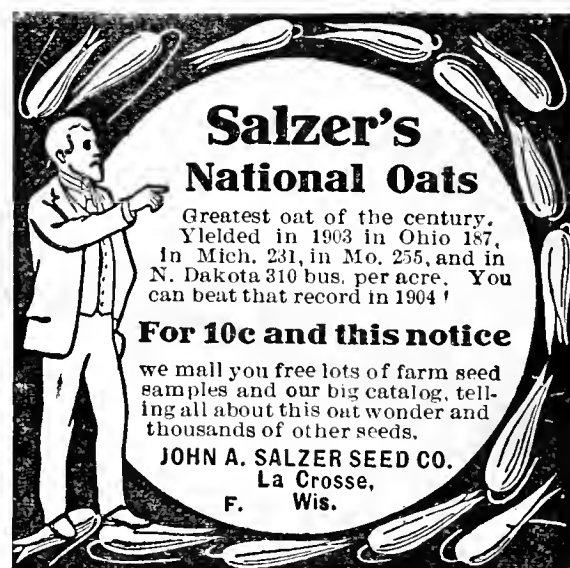
TO STOP USELESS EXPENSE.

Representative Shephard, of Texas, has introduced in Congress a bill providing:

That the present indiscriminate and inequitable distribution of vegetable seeds by the Department of Agriculture be discontinued, and that the Secretary of Agriculture be requested to submit to Congress plans restoring the original purpose of the seed distribution, which contemplated the introduction of new varieties in various localities and the determination of their adaptability to the soil, but which have degenerated into an expensive and farcical allotment throughout the entire country, regardless of the character of the soils and industries of the respective communities and the occupations and pursuits of the people thereof.

Secretary John Watson, of the Pioneer Nurseries Co., Salt Lake City, Utah, writes under date of November 3:

Fall sales have been good, better than last Fall. We find Sweet Cherries, European Plums and Peaches in good demand. They appear to be scarce and prices are not what they should be considering the demand. Apples and Pears are slow, as the market seems to be uncertain. Indications are that Spring sales will be brisk at better prices.



Michigan Grown Apple, Pear, Peach and Plum.

Catalpes
Carolina Poplars
Mountain Ash En.
Hydrangeas P. G.
Barberry Pur.
Am. Arbor Vitae
Norway Spruce

Arkansas Black
Baldwin
Ben Davis
Hubbardson
Grimes' Golden
Longfield
Northern Spy
Rome Beauty
Talman Sweet
York Imperial
Stark

Bartlett
Anjou
Clairgeau
Clapps Fav.
Flemish Beauty
Idaho
Kiefer
Lawrence
L. Bonne
Seckle
Sheldon
Vt. Beauty

Elberta
Kalamazoo and St. John
Lewis S and Fitzgerald
B. Smock and Champion
Salway and Crosby
Early and Late Crawford
Chair's Choice and Triumph

Wickson
Climax
Abundance
Red June

WEST MICHIGAN NURSERIES, Benton Harbor, Mich.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"Advertising is necessary for the future success of any business firm."—Lafayette Young, Des Moines, Ia.

Vol. XII.

ROCHESTER, N. Y., FEBRUARY, 1904.

No. 2.

WESTERN WHOLESALERS.

Methods for Overcoming Scarcity of Labor—Recommendation Regarding American Association Dues—Association Provided with a Good Stock, But Many Lines Limited—Two Days' Session.

The fourteenth annual meeting of the Western Association of Wholesale Nurserymen was held at Kansas City, December 15 and 16, 1903. President A. L. Brooke, being absent on account of illness, Vice-President R. H. Blair called the meeting to order. Roll call showed a majority of the members present. Secretary's report read and approved. Treasurer's report read and approved, showing a balance of \$117.45. Committee on program, nomination of officers and revision of constitution appointed. The name of J. S. Butterfield was presented for membership, reported favorably and admitted.

At the afternoon session, December 15, A. Willis, Ottawa, Kan., was in the chair. The committee on nomination, J. H. Skinner, E. S. Welch and A. C. Greisa, reported, and the following officers were elected for the ensuing year:

President, F. H. Stannard, Ottawa, Kan.; vice-president, E. R. Taylor, Topeka, Kan.; secretary and treasurer, E. J. Holman, Leavenworth, Kan.; executive committee, Peter Youngers, Geneva, Neb.; R. J. Bagby, New Haven, Mo.; D. S. Lake, Shenandoah, Ia.; W. P. Stark, Louisiana, Mo.; E. P. Bernardin, Parsons, Kans.

Appointed by President Stannard—Committee on transportation and tariff, A. L. Brooke, Topeka, Kan., E. S. Welch, Shenandoah, Ia., J. W. Schuette, St. Louis, Mo. Program committee—E. P. Bernardin, Parsons, Kan., R. H. Blair, Kansas City, Mo., E. J. Holman, Leavenworth, Kan.

M. J. Crow, of Stark Bros., introduced the subject, "The Present Labor Situation." He said they had felt its pressure, but by employing women and working night shifts by electric light, they had succeeded so far in its solution. E. S. Welch used night shifts and for stripping used boys outside of school hours and succeeded in meeting the demand of the packing season in good shape. All spoke of the scarcity and high price of labor, but regarded the situation as an abnormal one caused in part by the great demand for labor in St. Louis, in rebuilding the flooded districts and the rush of men for homes in the territories. It is felt that a gradual resumption of normal labor will soon follow, as much of the unusual cause will have ended.

On Wednesday morning, December 16, the association was called to order by A. Willis presiding. Peter Youngers intro-

duced the subject: "Which is the Best Way to Handle Forest Tree Seedlings for Early Fall Delivery?", the main object being to check the growth and denude the trees to obviate the tedious and expensive work of stripping. The experience given showed that by digging and covering tops with earth a few days, the end was best attained. J. H. Skinner introduced the subject, "What can we do to secure better transportation facilities?" This old matter was given considerable discussion and a purpose strengthened to seek needed changes such as the rights of nursery stock demand.

The action of the National Association in its pending resolution to raise the annual fees from \$2.00 to \$5.00 was debated and a resolution adopted that it would be unwise to advance above \$3.00, especially in the present healthy condition of its treasury, from a \$2.00 fee.

At the afternoon session, A. Willis was in the chair. The committee on revision of constitution and by-laws, E. S. Welch, A. Willis, J. A. Lopeman and A. C. Griesa, recommended the repeal of Sections 6 and 7 of the by-laws and the adoption of amendments providing that stock reports be made June 1st, other reports August 1st, and that Association reports be held from those that fail to comply with these requirements.

It was further recommended that firms changing their personality or location lose their identity in the Association. Also that the admission fee of \$6.00 shall include the first year's annual dues which shall be due July 1st of each year and any member delinquent six months to be denied the Association privileges and reports and his membership cease, and further that Section 5 of the constitution be amended in accord. All of which were adopted. A roll call was had to report any surplus stock of any kind. The general report showed the Association provided with a good stock, but in many lines limited.

This was the first time the Association has held a two days' meeting and from the fact that the next meeting calls for two days is shown the satisfaction of the change.

Adjourned to meet in Kansas City, July 12 and 13, 1904. E. J. Holman, secretary.

NEW YORK FRUIT GROWERS.

Forty counties were represented by nearly four hundred fruit growers at the third annual meeting of the New York State Fruit Growers Association, at Geneva, January 6-7. There was a large exhibit of fruit growers' apparatus and supplies. Ellwanger & Barry, Rochester, N. Y., made a fine exhibit of fruit.

TRADE-MARK CASE.

DEVELOPMENTS IN THE CONTROVERSY BETWEEN STARK BROS. COMPANY AND JAMES B. WILD & BROS.

*The Other Side of the Case — Statement by Stark Bros. Co.,
Showing That Action Was Only Temporarily Dismissed—
Controversy Not Wholly a Question of Nomenclature — Claims of Open Infringement —
Trade-Mark To Be Protected.*

Replying to articles published in the January issue of the NATIONAL NURSERYMAN, relating to Black Ben Davis and Gano apples and the trade-mark case brought by Stark Bros. Nurseries & Orchards Co. against James B. Wild & Brothers, Sarcoxie, Mo., the Stark Bros. Company write as follows:

Editor NATIONAL NURSERYMAN: We thank you for favor of the 18th inst. We note your prompt disavowal of responsibility for the articles appearing in January number of the NATIONAL NURSERYMAN, entitled respectively, "Black Ben Davis and Gano" and "Trade-Mark Case Dismissed." Had you simply printed these article over the signatures of authors, we would have cared very little, although we might have thought a publication like yours, an official organ, should exercise a more rigid censorship over the matter admitted to its columns. The great injury done us, however, is because you accepted both articles as a matter of news, making the insertion as a reader, following them with editorial comment, thereby giving both the weight of your publication. To be plain, we felt not only indignant but outraged. However, your prompt acknowledgment of error, your offer to repair so far as lies within your power by explaining in next issue, we accept as satisfactory.

NOT QUESTION OF NOMENCLATURE.

For your information we desire to say that this Black Ben Davis and Gano controversy is not a question of nomenclature; instead it is the outcome of petty jealousy, self-interest and vindictiveness. In an open fight no one fears the result of an issue with such antagonists. These people, however, do not work that way. They prefer rather to remain invisible, working under cover as they have done in your case.

In the conduct of our business our time has been fully employed and we have simply ignored these petty efforts. But they go so far, using publications like yours, using state horticultural societies, and even government departments to gain their end that we think it is high time to call a halt and give the people the facts. In making above statement it is not our intention to impugn the honesty or the motive of either horticultural society, government department or yourselves. It is the means, the questionable methods used to which we refer, and which have been the same in each case. From the same fountain head which furnished you this innocent reader on Black Ben Davis and Gano came the gentle zephyr which blew into Washington City last summer, carrying another subtle suggestion that it would have been possible for Stark Bros. to have picked all the striped apples off the Bain trees before the Missouri committee and Professor Van Deman got there. From the same magical source was exhibited at

Edwardsville, Kansas, the sample Black Ben Davis apple which came from the original Black Ben Davis tree, although this same tree had been destroyed years before. Truly this is a great testimonial for the keeping qualities of this variety.

BLACK BEN DAVIS AND GANO DISTINCT.

But enough of this except to say we have named but two or three instances; there are many. We are glad your letter distinctly locates the responsibility. We expect to look into that a little later. In your next issue in addition to giving the people the facts in regard to these two articles, we will ask you, in justice to us, also to give them the facts concerning Black Ben Davis and Gano by publishing the report made by the Arkansas State Horticultural Society at Van Buren, Ark., on the 14th of January, 1904. This society at this meeting, feeling an injustice had been done, spoke in no uncertain tones, pronouncing Black Ben Davis to be not only of distinct seedling origin, but a separate and distinct variety from Gano, to which report they append evidence which cannot be controverted. In addition to this report we desire very much that you publish the opinions given by as eminent pomologists as can be found in the United States, horticulturists, orchardists, etc., many of whom first held that varieties were one and the same, but after personal investigation, tests of different character, etc., are now as pronounced in their opinion that they are separate varieties as even Stark Bros.; but we know your lack of space forbids. For the benefit of your readers, however, we will say, "that those directly interested may obtain" them by simply sending us a request only and they will be furnished without the charge of \$1.00 or any other sum. Right here allow us to add that we have yet to find a single grower who, having fruited the true stock of each variety side by side under same conditions, but who pronounces them distinct and Black Ben Davis the superior of the two.

What the people want and what they are entitled to is facts and not personalities; hence, while there are pages we could write you as to the work of those who are at the bottom of this controversy, the methods employed by which they have succeeded in using some good and honest men, we forbear for the present. We know our position, have make no claims which we are not abundantly able to substantiate and which the future will prove. We first placed Black Ben Davis on the market in 1895, since which time we have shipped trees of this variety into every state of the Union and many foreign countries. In short, a majority of the orchards, especially in Central and Western territory, have both Black Ben Davis and Gano growing side by side. We are content to let the trees tell the true story and pronounce the verdict from now on. This will be a verdict which no pomologists, no horticultural societies can influence or controvert.

QUESTION OF TRADE-MARK.

So much for the Black Ben Davis and Gano article. Now what about the trade-mark article and Mr. Wild's clipping from Sarcoxie paper sent you? Here are the facts:

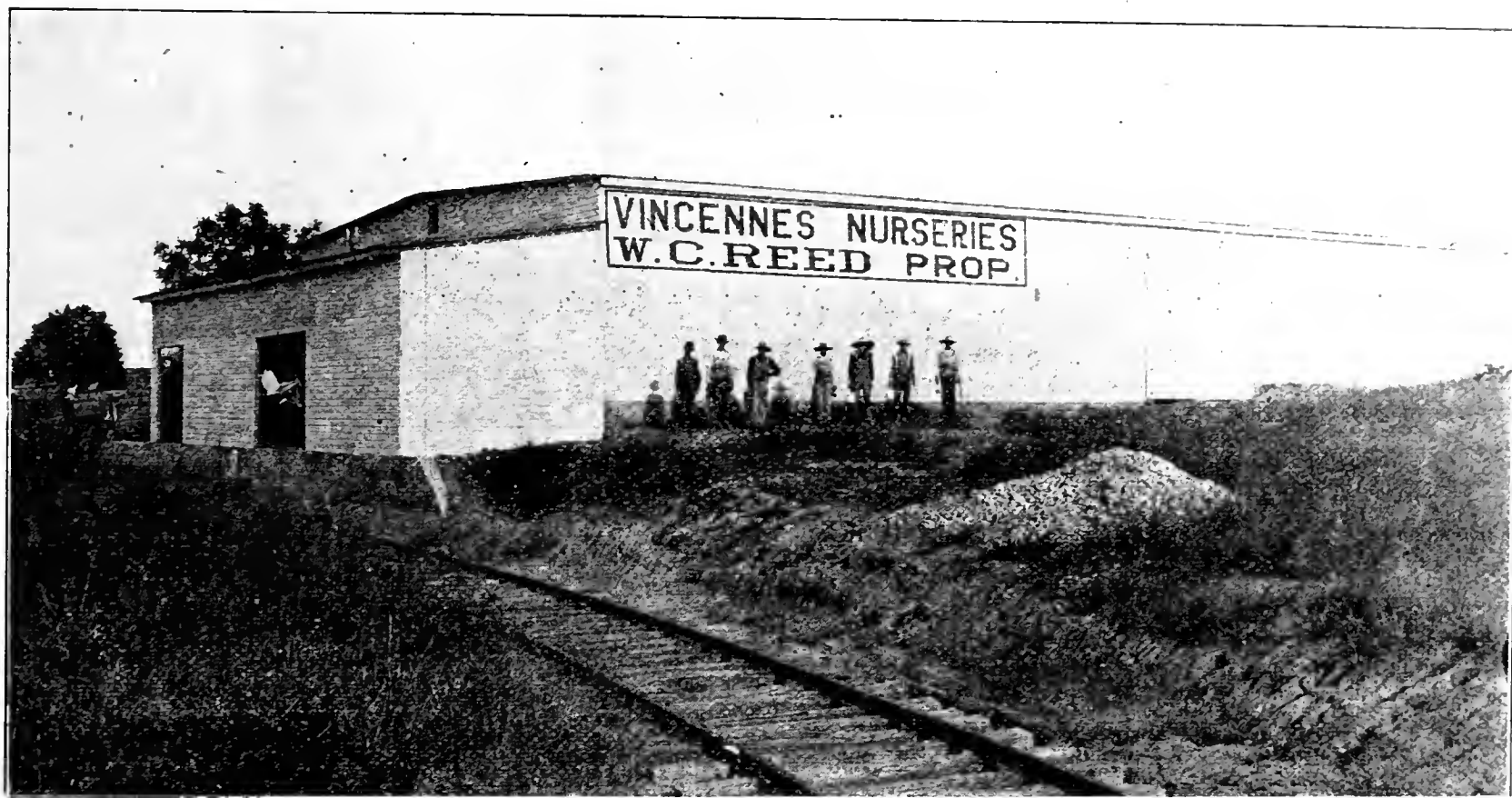
During the year 1895 we adopted trade-marks on several seedling apples which originated in North-west Arkansas, known there in a neighborhood or local way only. We early learned that this part of Arkansas was one of the best apple sections in the United States, learning further, as stated in the Stark Fruit Book, one of our first publications following

the adoption of trade marks, that our market apples of the future must come from this section. This for the reason that while in other less remote regions trees were propagated by either grafting or budding, here for seventy years the people had been planting seed of their best apples. The excellence of these varieties engaged our attention, we made full investigation, carefully tracing origin and history. Becoming convinced that these were valuable varieties, possessing worth, merit, decided to introduce them; but never claimed to originate, as is stated in your article. On these varieties we adopted and placed a trade-mark or brand to designate and distinguish these trees as propagated and furnished by our nurseries from trees propagated and furnished by others; in short, to give customers our guaranty that they would receive exactly what we represented, thereby protecting them from fraud, deception or mistake on the part of others engaged in the business of furnishing nursery stock to the fruit-growing world. It is unnecessary to go into details, explaining the

restrain them, desire to step in, reap where we have sown, share equally in the demand and market we have established by our labor, expenditure for testing, advertising, etc. This infringement was slight at first and we paid very little attention to it; becoming bolder, however, in time nurserymen of this class began to include our trade-marks in their price lists, order blanks and printed matter generally; also to misrepresent us, our position, our claims, our motives, etc., to such an extent forbearance has ceased to be a virtue. Thinking because we had paid no attention, that they could infringe with impunity, they have become bolder and bolder.

SUITS INSTITUTED.

Reaching the conclusion that it was necessary to call a halt, we instructed our trade-mark attorney at Washington, D. C., to institute suit against Schulze Bros., of Brussels, Ill., and Wild Bros., of Sareoxie, Mo. He did so, but not being familiar with the court calendars of each state, instituted suits at a time which would bring the Wild suit up for trial first; at



PACKING HOUSE AT W. C. REED'S NURSERIES, VINCENNES, IND.

fraud and deception practiced by unscrupulous people engaged in the nursery business, dealers, etc., or of the actual mistakes made, as you and every nurseryman is fully familiar with it; fully cognizant that perhaps in no line is the buyer so much dependent upon the honesty of and care exercised by the firm from whom he purchases goods as in the nursery business.

TRADE-MARKS RESPECTED.

These trade-marks or brands we are glad to say have been respected by the responsible nursery companies in the country almost without exception. In fact, we have in our possession recent letters from almost all firms of recognized standing, promising their assistance in our present litigation, stating that they recognized our moral as well as legal right, many of these offers coming entirely unsolicited.

As stated above, we have suffered no infringement since the adoption of these trade-marks, except in the case of a few firms, who, not possessing the ability to advance or lead in any line, and without the necessary moral rectitude to

same time had made his arrangements, collected necessary evidence, etc., expecting to try first the suit against Schulze Bros.

This state of affairs becoming apparent and it being impossible for attorney to be in Sareoxie, the usual request was made through local attorneys that case be continued. To this Mr. Wild positively refused to agree; hence our only resort was to dismiss suit against Wild, which we did at a cost of \$8.75. Our case against Schulze Bros. is now under way, part of the depositions having been taken. The case is docketed, the complete evidence will be presented and a decision rendered at the next term of circuit court held at Hardin, Calhoun Co., Ill., to be held April next. It is our intention to attend to Mr. Wild as soon as the Schulze case is decided, not only in matter of infringement but for other responsibilities, among them this one which you have enabled us to locate. However, this is neither the time nor the place to declare intentions.

We beg pardon for so long a letter, but wanted you to have

the facts, also your readers. We prize too highly our standing in the nursery world, prize too highly the fraternal ties existing between us and brother nurserymen, to allow misrepresentations of this character to go unchallenged. It has become a fashion in late years in certain quarters to abuse Stark Bros. We have been busy and heretofore ignored it simply because it was too small, too petty, too contemptible, to notice. We have suffered them to do the talking and have kept right on growing and selling the trees. They, mistaking our reasons for forbearance, have continued their misrepresentations until they have actually impressed the belief upon some honest people that our methods were questionable, that we were trying to obtain a monopoly by reason of our trade-marks, etc. Feeling that the public is interested in facts alone, we have in this letter endeavored to give you the facts only and avoid personalities, although we confess the temptation great. If necessary later we shall call names.

This letter we will ask you to give the same publicity given the articles to which it refers. Believe us,

Yours truly,

STARK BRO'S NURSERIES & ORCHARDS CO.

Louisiana, Mo., Jan. 28, 1904.

EUGENE W. STARK,

Sec'y.

IN EXPLANATION.

The above letter of Stark Brothers explains itself; but in justice to that firm and to ourselves we desire to add that the publication of but one side of the case was due to the fact that we did not have at hand the information we now have, which puts the matter in a different light. The articles appeared to be simple statements of fact and not being familiar with the contentions in either case we gave them to the nursery world as matters of interest. In view of later developments we take pleasure in presenting Stark Brothers' statement and in making this explanation.

Stark Brothers have been subscribers and patrons of this publication since its first issue. The wonderful success they have achieved speaks for itself; none stands higher in the nursery world; personally we hold them in high regard, esteeming them as gentlemen above questionable business methods. Hence nothing could have been further from our intention than to do them an injustice through our columns.

We are glad to have brought out a plain statement regarding this trade-mark case which we believe will be of special interest to all nurserymen. The suit of Stark Brothers vs Schulze Brothers, as we understand, is along new lines, no precedent having been established by previous court decisions; consequently the eyes of the nursery world will be upon it.

As to the merits of the Black Ben Davis and Gano conten-

tion, we do not know and have no opinion to offer, as we see a wide difference of opinion exists, not only among horticulturists and pomologists, but even state societies. It seems to be a case where each must form his own opinion. The plan adopted by Professor L. H. Bailey and others, in volunteer testing for orchards, would seem to be a good one to apply in these cases—to secure a few trees of each of these varieties, have them planted side by side and watch them carefully as they grow and mature fruit. In this way one may decide for himself whether they are the same or distinct varieties.

ORIGIN OF BLACK BEN DAVIS.

At the annual meeting of the Arkansas State Horticultural Society held at Van Buren, Ark., January 12, 13, 14, 1904, a motion was made and carried "That a committee of three be appointed to investigate the origin of the Black Ben Davis and its relation to Gano, and to report to the Association at its pleasure."

The president appointed Prof. W. G. Vincenheller, director

of the Arkansas experiment station, Fayetteville; A. W. Poole, Ozark; J. E. Reynolds, Maple. At the morning session January 14, the committee submitted the following report, together with the evidence, all of which was adopted, with only one dissenting vote:

"Your committee appointed to investigate the origin of Black Ben Davis apple and the claim of some horticulturists that the apple is identical with the Gano, respectfully beg leave to report



SCENE IN W. C. REED'S NURSERIES, VINCENNES, IND.

as follows:

"We are thoroughly convinced, after a rigid investigation of the facts that the Black Ben Davis originated in Washington county, Arkansas, on a farm owned by Alexander Black, commonly known as the 'Parson Black Farm;' that while it is of the Ben Davis type and has some of the characteristics of the apple known as Gano it is a separate and distinct variety.

"In substantiation of this opinion we herewith submit the following testimony, which testimony we feel certain has never been presented to any committee or body of horticulturists before, and that if this testimony had been secured by the Missouri horticultural committee their report would have been in accordance with our conclusions.

"We ask that this testimony be filed with these findings as a part of this report. Respectfully submitted, W. G. Vincenheller, A. W. Poole, J. E. Reynolds, committee."

The committee filed with other evidence an abstract of title showing that "Parson" Alexander Black filed his homestead entry on September 9, 1899; patent was granted him from United States government on November 6, 1874; Alexander Black sold to J. S. Eally, December 3, 1877; J. S. Eally sold to

J. D. Moore; Moore sold to J. F. Reagan, March 8, 1883; J. F. Reagan sold to Nathan S. Thomas, April 11, 1887. Mr. Thomas has lived continuously on the old Black homestead ever since.

In support of this report this statement is made:

"This abstract shows every owner of the old Black homestead from the time of its first settlement to the present time. The statements submitted below show conclusively that the only fruit trees ever planted on the Black farm were 100 apple trees planted by Alexander Black in 1870 and later, three or four years after the Black Ben Davis seedling came up, another small orchard, which was planted by Mr. Reagan. The trees planted by Mr. Black were thirteen years old and in full bearing when Mr. Reagan moved on the place.

"Attention was called to two very important facts appearing in the evidence submitted: First, that the original Black Ben Davis tree came up within six feet of a cedar tree; had anyone been planting a fruit tree, as some have claimed was the case with B. B. D., certainly they would not have selected such a location. Second, even the seed of the original tree is accounted for by Mr. and Mrs. Reagan's statement that their predecessors were in the habit of preparing, in the shade of the cedar tree, their apples for drying, cooking, etc. The first fact seems to have been lost sight of in a previous investigation and the second was not discovered as Mr. and Mrs. Reagan were then living in the Indian Territory and efforts to locate them had been unsuccessful."

Copies of this report, with the evidence submitted, may be procured from the secretary of the Ark. Hort. Society, Fayetteville, Ark.

W. C. REED.

W. C. Reed, proprietor of the Vincennes Nurseries, at Vincennes, Ind., was born in Greenfield, Hancock county, Ind., March 17, 1868. He went to Vincennes when 2½ years old and lived on a farm all his life. Educated at the Vincennes University, he left school when he was 20 years old and went to work for Simpson & Hogue, nurserymen, of Vincennes. At the close of the first year he was taken into the firm which became Simpson, Hogue & Co. Mrs. Hogue retired from the business in November, 1891, and the firm was dissolved, Mr. Reed starting in business for himself. His trade has increased until his nurseries cover more than two hundred acres, 100 of which are planted to nursery stock which is shipped from coast to coast and from Canada to the gulf. On November 14th, a large furniture car laden with cherry and peach was shipped to Oregon from this nursery in perfect condition and not a tree was rejected. Cherry is one of Mr. Reed's specialties. He plants from 100,000 to 150,000 each season. Mr. Reed was married in November, 1891. He is a member of the American Association of Nurserymen and a regular attendant at the conventions.



W. C. REED.

PENNSYLVANIA NURSERYMEN ORGANIZE.

After adjournment of the Pennsylvania Horticultural Society at Lancaster on January 19th, Prof. Surface, economic zoologist, department of agriculture of Pennsylvania, called the nurserymen together and suggested the need of forming an organization. He dwelt upon the importance of legislation to protect nurserymen and particularly in regard to combating the San Jose scale. "This," said he, "can only be obtained by uniting as a body." The following nurserymen were represented: W. E. Grove, The W. H. Moon Co., The Conard & Jones Co., Rakestraw & Pyle, John Peters & Co., D. C. Rupp, C. P. Schell, J. R. Shavely, John G. Engle, Maurice Brinton, W. P. Bolton, D. D. Herr, H. H. Harnish, John Kready, Calvin Cooper, A. W. Root & Bro., J. Krewson & Son, T. Meehan & Sons, wholesale, W. W. Harper, Thos. Meehan & Sons, retail, H. E. Chase, George E. Stein.

W. H. Moon was made temporary chairman, and Earl Peters temporary secretary. "It is something," said Mr. Moon, in a few introductory remarks, "that we should have had long ago and the forming of an organization will fill a long felt need. We have no manner or method at present of safeguarding our interests as a whole. There are 144 nurserymen in the state and we should organize as a body to protect ourselves and secure legislation that will benefit the trade."

After a brief discussion, it was unanimously decided to form a permanent organization. Committees to nominate officers and draft a constitution were appointed.

The following officers were elected:

President, William H. Moon; vice-president, Thomas B. Meehan; secretary, Earl Peters; treasurer, Thomas Rakestraw. A constitution and by-laws were adopted. The next meeting will be held in Harrisburg.

COULD REPLANT ADIRONDACK REGION.

Regarding the statement in the Brooklyn Eagle, quoted in the last issue of the NATIONAL NURSERYMAN, that "it has been found impossible to obtain sufficient seedlings either in this country or in Europe for the re-forestation work in the Adirondack region," the Evergreen Nursery Co., at Sturgeon Bay, Wis., says:

"There are several nurseries in the United States that would contract to supply seedlings of standard evergreens, or even transplanted stock, sufficient to re-plant the entire region. Perhaps they wish to raise them themselves, anyway; but it is not fair to assert that the nurseries of the United States could not supply them, and that it is for that reason they have to raise them themselves. We could raise and supply 10,000,000 seedlings per year, on two years notice, more if anyone wants them."

The National Nurseryman.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., FEBRUARY, 1904.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, N. W. Hale, Knoxville, Tenn.; vice-president, Frank A. Weber, St. Louis, Mo.; secretary, George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

Executive Committee—William Pitkin, Rochester, N. Y.; Peter Youngers, Geneva, Neb.; John S. Kerr, Sherman, Tex.

Committee on Transportation—President Hale, ex-officio; A. L. Brooke, N. Topeka, Kan.; J. H. Hale, South Glastonbury, Conn.; E. Albertson, Bridgeport, Ind.; M. McDonald, Salem, Ore.

Committee on Tariff—Irving Rouse, Rochester, N. Y.; Thomas B. Meehan, Dreshertown, Pa.; Hiram T. Jones, Elizabeth, N. J.

Committee on Legislation—C. L. Watrous, Des Moines, Ia.; Silas Wilson, Atlantic, Ia.; George A. Sweet, Dansville, N. Y.; William Pitkin, Rochester, N. Y.; E. M. Kirkpatrick, McKinney, Tex.

Committee on Program—J. H. McFarland, Harrisburg, Pa.; Harlan P. Kelsey, Boston.; Charles A. Ilgenfritz, Monroe, Mich.

Committee on Publicity—Ralph T. Olcott, Rochester, N. Y.; Orlando Harrison, Berlin, Md.; Prof. W. G. Johnson, New York City.

Committee on Exhibits—R. C. Berckmans, Augusta.; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester.

Committee on Cost of Growing Trees—Wilson J. Peters, Troy, O.; W. F. Heikes, Huntsville, Ala.; Theodore Smith, Geneva, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, F. H. Stannard, Ottawa, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.

SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.

SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

COMMITTEE WORK FOR ATLANTA.

President N. W. Hale, of the American Association of Nurserymen, has asked the chairmen of the standing committees of the Association to begin the work of preparing for the convention at Atlanta. An effort is to be made to make this convention as profitable from a business point of view as it doubtless will be enjoyable.

"Everything points to a large and profitable meeting at Atlanta, Ga., next June, writes President Hale. "We are all at work, I mean all the committees and friends of the Association, to that end at this time. If Georgia has a large peach crop and the meeting is set for such time as will enable the Association to visit the commercial orchards, it will be the greatest show in the United States.

"Members and friends of the Association should begin thinking of and working on the live questions of the day that confront the nurserymen, such as state and national legislation on the subject of inspection of nursery stock and the transportation of the same.

"The greatest loss of all losses that come to the nursery business now is on account of slow and uncertain transportation of our shipments. Many firms this year in the South have lost thousands of dollars on account of stock being out many weeks longer than is should be, and unless some very positive work is done by our various Associations, by the strong firms and men in the nursery business, it is going to end in ruin."

HOW TO INCREASE SALES.

"Pushing to the front" is the motto that successful nurserymen have adopted. It cannot be emphasized too often. Study of methods must accompany action, so that trade movements may be made intelligently. We have referred to the remarkable progress made by nurserymen in many sections during the last year or two. That was the result of keeping well informed as to what others were doing and then adding original ideas and proceeding.

The nurseryman must either progress or recede; he cannot long stand still. The new year brings additional problems, keener competition, and the successful nurseryman must be equipped to cope with existing conditions. Ample opportunities are afforded. Membership in the American Association of Nurserymen and in the district nursery associations a list of which appears on our editorial page, is highly important. All of these organizations are active means toward the betterment of trade relations and full advantage of them should be taken. The American Pomological Society in which nurserymen take a prominent part and whose president is J. H. Hale, well versed in nursery and fruit growing subjects, is a medium for the dissemination of valuable pointers for the trade.

In a communication to the NATIONAL NURSERYMAN, President Hale says: "I think in the past the majority of nurserymen have failed fully to realize the advantage that would come to their business through the stimulation of higher horticultural and pomological ideas. A love and understanding of trees and plants must be created before one can

stimulate the greatest amount of buying. Nurserymen have spent a great deal of money trying to induce people to buy trees and plants who did not want them, and if a part of this money and energy had been first devoted to stimulating a desire for trees, sales could have been more readily made."

All of which we earnestly commend to those who would know the secret of increasing sales.

NEW FRUIT SELLING METHODS.

At the meeting of the Kansas Horticultural Society, Prof. F. A. Waugh urged diversification instead of consolidation. He thought some men could grow other fruit than apples. He cited instances of success with quinces, plums and other secondary fruit. New markets can also be reached. Local markets are often or even generally neglected. New packages should be introduced. New ways of marketing should be devised. The old scheme of selling through the commission men is sometimes good, but often bad. Selling fruit direct by means of newspaper advertisements has proved successful.

RELATIONS WITH AGENTS.

To J. W. Schuette, of St. Louis, was ascribed the discussion of the following question at the semi-annual meeting of the Western Association of Wholesale Nurserymen: "Is not the system of such large advances to dealers and salesmen wrong and unbusinesslike and what can we do to remedy it?"

In connection with this subject the question of providing a fund to punish dishonest dealers and salesmen was considered. Among those who discussed it was A. Willis, of Ottawa, Kan. In a great majority of cases the delinquency of salesmen and dealers that could be proved in court to be criminal is small. Most of these delinquencies come along lines of shabby work or neglect of business and it does not seem that these could be regarded as strictly criminal. Often salesmen that were delinquent in their returns of the amounts that should have been paid are in that situation because of carelessness and sometimes the agent will claim a misunderstanding and sometimes will plead poverty. A nurseryman may loan an agent too much money; but all these things are not criminal. Then when criminal matter comes up, it is generally of such an amount and the agent is at a distance, and sometimes before the crime is known he is gone altogether, that difficulties of prosecution are very serious.

With these matters in view and with the uncertainty as to what one nurseryman would feel of the opinions of another nurseryman as to the criminality of a particular case it seemed that, while losses were serious and sometimes criminally gross, on the whole the difficulties would be too great to attempt the forming of an association to punish dishonest dealers and salesmen. This seems to have been the view generally of the members of the Association, as after the discussion no move towards such an organization was undertaken and since then no desire on the part of anyone to make such a move has been expressed.

The American Breeders Association, including both plant and animal breeders, was formed at St. Louis, December 29, 1903. Secretary James Wilson, of the Department of Agriculture, is president. Prof. N. E. Hansen, of South Dakota, is secretary of the plant section.

NO SPECIAL TAGS AUTHORIZED.

Editor NATIONAL NURSERYMAN:

Dear Sir: In the January issue of the NATIONAL NURSERYMAN there appeared an article under the caption, "Inspectors Favor Fair Laws," in which some incorrect statements are made in regard to shipments of nursery stock in Virginia. In order to correct any misapprehension that may have arisen from these statements I wish to state that no tags have been issued from this office, except the regular official tag authorized by the Crop Pest Commission, and no exceptions have been made, the requirements being uniform for all nurserymen. Consequently, the statement that a special red tag was issued or offered from this office on which stock might be shipped into Virginia is incorrect.

No issue of special tags has been under contemplation, and if red tags or any tags other than the above-mentioned official tag have been used to cover shipments of nursery stock to Virginia, it was done without the knowledge of this office.

Blacksburg, Va. J. L. PHILLIPS, State Entomologist.

Obituary.

JOSIAH HOOPES, the senior member of the firm of Hoopes, Bro. & Thomas, died of pneumonia at his home in West Chester, Pa., January 16th, aged 71 years. Of him the West Chester News says: "Josiah Hoopes was a man of fine business ability and of varied attainments. His almost unrivaled success as a nurseryman was the result of life-long application in the line of his natural bent. He was a botanist by nature, by choice and by systematic practical study. His fame both as a botanist and a business man of integrity and reliability is well known throughout this country and Europe. He was regarded as an authority on many lines, but particularly on evergreen trees, which he made the subject of diligent and exhaustive study. In 1868 he published the principal work on that subject. It is entitled 'Book of Evergreens,' and a practical treatise on the conifera or cone-bearing plants of the world. It has since been recognized as an authority on this class of trees. Hoopes, Bro. & Thomas have 600 acres of land in trees. Probably no other firm in the United States does a larger business in the general nursery line. Some specialists excel them in a particular line, but in the nurseries of Hoopes, Bro. & Thomas is grown almost every form of plant and tree indigenous to the United States and an almost endless variety of tropical plants. The grounds about the office, so beautifully and attractively laid out and planted, have been the special care of Josiah Hoopes for many years, and are a credit to his skill and artistic taste. Many West Chester properties have been laid out and planted with ornamental trees under his direction. Possessed of a liberal education himself, he always manifested a lively interest in the education of others. For a number of years he served as a trustee of the West Chester Normal School. He traveled in Europe and contributed many articles to publications. He was a patron of base ball and athletics. On March 17, 1898, he married Helen A. Morgan who survives him, with a son. He also leaves a brother, Abner Hoopes, who with George B. Thomas constitute the firm. Josiah Hoopes was a life member of the Society of Friends.

The February issue of Country Life in America contains articles of interest to nurserymen and horticulturists including a description of rose-growing under glass, by Prof. L. H. Bailey; an account of a 2,000-acre estate in California where 20 different fruits are grown the year around, how home-grown grapes may be had in winter and an article of unusual practical interest to gardeners, "Transplanting a Million-Dollar Industry," suggesting how Americans may save the money sent abroad each year for Dutch and other bulbs.

Among Growers and Dealers.

It is reported that the Easterling Nursery Co., of Cleveland, Tenn., proposes to plant 1,500,000 peach trees and 1,000,000 apple trees, and 50,000 cherry trees and 50,000 pear trees.

The Green Nursery Co., Rochester, N. Y., has been incorporated with a capital of \$10,000 by C. A. Green, Jennie C. Green and R. E. Burleigh.

Knight & Bostwick, Newark, N. Y., has been incorporated with a capital of \$5,000 by C. W. Stuart, C. H. Stuart and J. M. Pitkin, of Newark.

Herbert S. Chase, Huntsville, Ala., visited Rochester nurserymen on January 14th on his way home after a two weeks' trip.

W. F. Heikes, Huntsville, Ala., is erecting a handsome residence.

The Weber & Sons Nursery Company, St. Louis, will have an exhibit of trees, shrubs and herbaceous plants on the horticultural grounds at the World's Fair. A part of it is already installed. F. A. Weber made a business trip to eastern points last month.

J. W. Schuette, St. Louis, Mo., spent last month in California.

Mr. and Mrs. C. W. Greening, of Monroe, Mich., celebrated the fiftieth anniversary of their wedding on December 26th. Mr. Greening was the founder of the Greening Brothers' Nursery Company in 1863.

A. W. McDonald and Leon Girod are operating the Washington Nursery Company at Toppenish, Wash. Their grounds comprise 350 acres of which nearly 50 are in nursery stock. According to the Yakima Herald this firm is preparing to open an office at Detroit, Mich., whence nursery stock grown in Washington is to be distributed in the east.

The park commissioners of New London, Conn., have engaged W. E. Arnold, of the Shady Hill Nursery Company, to lay out Riverside park, on the Thames River.

It is reported that Downs & Co. have purchased the business of the Shreveport, La., Nursery Co.

The Oklahoma Nursery purchased the William Murray farm just north of Guthrie, Oklahoma, for \$15,000. A large plant will be erected for packing and shipping trees and a switch will be built to the farm from the Santa Fe and the Denver, Enid and Gulf railroads.

J. F. DONALDSON.

The subject of this sketch started in life with nothing but his hands and a determination to succeed at anything he might undertake. He was born in London, England, October 6, 1874, and at the age of eight years came to America to live with an uncle in Orange County, Va. His life from eight years to 16 years was spent on a farm and he received a common school education. At the age of 17 he engaged in the nursery business. In 1892 he went to Kentucky and was employed by E. K. Taliaferro & Bro., of Newport and Warsaw, Ky.; was with them three years and then went to The Storrs & Harrison Co.'s at Painesville, O.; was with them two years and in Spring of 1898, with D. E. Gibson, of Warsaw, Ky., started the Willadean Nurseries known as Donaldson & Gibson, J. F. Donaldson being manager and at the head of the firm, as his partner knew nothing about the nursery business. The first year they planted about six acres in nursery stock; have grown and increased their planting until now they have about 100 acres planted in stock. The Willadean Nurseries are the largest nurseries in the state and grow one of, if not the largest stocks of ornamentals, shrubs and seedlings south of the Potomac and Ohio rivers.

The business is almost exclusively wholesale. They ship

to over 30 states and their trade is increasing rapidly each year. In August, 1903, J. F. Donaldson bought out his partner's interest in the nursery which is now conducted by The Donaldson Co., Mr. Donaldson being the proprietor. The nursery is located on the Ohio river, 65 miles south of Cincinnati and 85 miles north of Louisville, Ky.

MARYLAND ORCHARD COMPANY.

The Mountain Dale Orchard Company of Maryland and West Virginia, was recently incorporated at Cumberland, Md., with a capital stock of \$20,000. Mayor W. C. White, of Cumberland, is the president; G. H. Hetzel, secretary-treasurer, and S. D. Moser, general manager. The company controls or owns about 1,000 acres of land adjoining the Allegheny peach orchards, near Paw Paw, W. Va., Hampshire county, and it is understood has options on more of the contiguous territory. It contemplates starting a general nursery business. It starts with an orchard of 25,000 peach, pear and plum trees from one to four years old. About 50,000 additional trees in variety will be planted in the next two years.

MARYLAND HORTICULTURISTS.

At the sixth annual meeting of the Maryland Horticultural Society, in Baltimore last month, W. M. Peters' Sons, Snow Hill, exhibited big stem juicy sweet potatoes; J. G. Harrison & Sons, Berlin, fruit and ornamental trees; J. W. Kerr, Denton, varieties of nuts. Professors T. B. Symons and J. B. S. Norton exhibited 36 cases of mounted insects which affect crops. Orlando Harrison discussed "Nomenclature and New Fruits." Prof. F. A. Waugh, of the Massachusetts Agricultural College, spoke on "The Tree Planters' Interest in Propagation." His talk gave rise to considerable discussion and differences of opinion between the growers and the nurserymen. Professor Waugh said that the nurserymen should be held responsible for the trees they sell if they develop disease. C. M. Peters read a paper on vineyards.

A. L. Towsen, of Washington County, was elected president; Prof. Norton, secretary-treasurer. Orlando Harrison is a county vice-president; he is also a member of the executive committee of the Peninsula Horticultural Society, including Maryland and Delaware.

The Illinois Horticultural Society has adopted a resolution asking the state department of agriculture to conduct experiments tending to convince the foreign authorities that there is no danger of infection of orchards from fruit infested with San Jose scale.

Dean Davenport, of Illinois, says that if the various kinds of apples were as assiduously advertised as breakfast foods, the orchard business would be revolutionized, much to the increase of the fruit growers' bank account and the general health of the public.

It is probable that the general assembly of Virginia will adjourn until 1905 early this month and that there is little hope for an amendment of existing nursery inspection laws about which there has been much complaint. The reason for a shorter recess is that the last legislature passed a large mass of new and untried laws that will have been tested in twelve months, and as is always the case, time will demonstrate the necessity for change in some of them. The regular biennial session would not meet until 1906.



J. F. DONALDSON.

LITTLE DAMAGE BY SEVERE COLD.

Reports from various points regarding the effect of the severe temperatures this winter indicate that owing to the heavy fall of snow comparatively little damage has been caused.

GENEVA, N. Y., January 20—W. & T. Smith Company: "We are glad to report that, as far as we can now find out, stock has not been materially damaged thus far. It has been very fortunate that the ground has been well covered with snow; otherwise we think some kinds of plants would certainly have been injured. Almost all kinds of nursery stock were well ripened before cold weather came on, which is another point in favor of nurserymen. It is our opinion that most of the injury to plants in cold weather is in the Spring of the year when we have alternately severe freezing and bright sun."

NEWARK, N. Y., January 22—Jackson & Perkins Co.: "So far as we have been able to ascertain thus far, the severe cold weather has done no particular damage in this locality. We had no peaches outdoors and think that they might have suffered somewhat if we had had any; but the other stock we believe has thus far come through all right. We have had a very heavy fall of snow here which has protected small stock well and we do not anticipate any unusual losses."

DANSVILLE, N. Y., January 21—James M. Kennedy: "I have examined the nursery stock in this locality and find it has stood the test of the severe cold weather. I am safe in saying at this writing that nursery stock never wintered better. Other nurserymen here say the same thing."

TROY, O., January 21—George Peters & Co.: "As far as we have observed stock in this section is in very good condition at this time, with the exception of the peach trees. The peach that were allowed to stand out during the winter are badly browned and quite a number of the fruit buds are killed. Stock was in unusually good condition when winter set in as it was well matured and was in better shape to stand a hard freeze in ordinary seasons. The mercury through this section has stood from 10 to 15 degrees below at the coldest."

GENEVA, NEB., January 22—Youngers & Co.: "We have had no severely cold weather, the thermometer registering only about eight degrees below zero, which we consider rather mild for the north pole. We have had no snow worth mentioning, probably not more than an inch. The trees are absolutely uninjured and, at the present time, everything indicates a good fruit crop."

NORTH TOPEKA, KAN., January 22—Peters & Skinner: "While we have had quite steady winter, we have not had any severe cold weather. The thermometer has registered little if any below zero. So far, there has been no injury to nursery stock and peach buds are apparently unhurt."

BRIDGEPORT, Ind., January 21—Albertson & Hobbs: "We have not had any severe weather here this winter. It has been an exceptionally steady winter with us, but we have not had as low temperatures as we have often had before. In fact, our lowest temperature has been from 12 to 15 degrees below zero, and only two mornings that cold and that only lasted for a few hours, and it is nothing uncommon for

us to have 15 to 20 below. This season the cold has been so continuous and steady, stock was well ripened up when it went into winter quarters, and we do not anticipate the slightest injury to our stock here. But from reports we have had from other sources we would not be at all surprised if much stock has been injured in some sections.

Long and Short.

Roses are a specialty with George Bros., Penfield, N. Y.

Salzer's Seed Novelties are distributed from LaCrosse, Wis.

Special low prices are offered by the Donaldson Co., Warsaw, Ky.

Small fruits in surplus are listed by W. N. Searff, New Carlisle, O.

Standard flower pots can be had of the Keller Pottery Co., Norristown, Pa.

For spraying apple trees use Century Sprayer made by the Deming Co., Salem, O.

Wood labels of all kinds are made by the Dayton Fruit Tree Label Co., Dayton, O.

Sherman Nursery Co., Charles City, Ia., offer a heavy stock of evergreens and grapes.

Twelve thousand peach, in twelve kinds, are offered by Josiah A. Roberts, Malvern, Pa.

E. Smith & Sons, Geneva, N. Y., offer special inducements on all lines of nursery stock.

Dean & Billingsly, Greenwood, Ind., offer for Spring apple and peach; also small fruits.

The Dansville Willow and Twine Looping Machine is sold by G. C. Stone, Dansville, N. Y.

Ornamental stock is a specialty with Wm. H. Harrison & Sons, Lebanon Springs, N. Y.

Strawberry plants and seed potatoes are specialties with Flansburg & Peirson, Leslie, Mich.

An especially fine lot of apples and peaches is offered by Peirson Bros., Waterloo, N. Y.

The P. J. Berckmans Co., Augusta, Ga., announce their February and March list in another column.

Hot bed sash and frames of all sizes are kept in stock by Lord & Burnham Co., St. James Building, New York.

Apple seedlings and apple grafts and hardy nursery stock generally are offered by Albertson & Hobbs, Bridgeport, Ind.

Large specimen shrubs, evergreens, etc., are wanted by H. J. Weber & Sons Nursery Co., Nursery station, St. Louis, Mo.

E. S. Welch, Shenandoah, Ia., has in storage a large stock. His list of apples and crabs is given elsewhere in this issue.

Greenhouse material cut and spliced ready for erection is offered by S. Jacobs & Sons, 1365 Flushing avenue, Brooklyn, N. Y.

John Charlton & Sons, Rochester, N. Y., offer the Charlton grape and the new gooseberry Victoria, among other choice nursery stock.

The Albaugh Nursery & Orchard Co., Phoneton, O., offer apples, peaches and cherries. They want plums Kieffer pear and strawberries.

Extremely low prices are offered by the H. S. Taylor Nursery Co., Rochester, N. Y., on a full line of nursery stock. Special line of ornamentals.

4,000,000 PEACH TREES

Largest stock of Peach grown by any one man in the United States. Write me before you place your order for Fall of 1903 and Spring of 1904.

TENNESSEE WHOLESALE NURSERIES,

J. C. HALE, Proprietor.

Winchester, Tenn

WANTED

A First Class Practical Nursery Foreman in the East. Wages limited by ability only. State experience, etc., on application. Address,

"MT. D." care National Nurseryman, Rochester, N. Y.

Pink Dogwood, 10 Ft. High
4 times transplanted. Koster's Blues Spruce
Japanese Maples Specimens up to ten feet,
full heads, three times transplanted. Long Distance Telephone 506 W. Orange

HENRY E. BURR

Irvington and Boyden Avenues, South Orange N. J.

WM. H. HARRISON & SONS
Lebanon Springs, N. Y.

Nursery grown and selected Ornamental Trees, Shrubs, Vines, Trailers and Herbaceous Stock. Wholesale orders solicited from Landscape Architects, Parks and Cemeteries. Send for catalogue.

Surplus  *Roses*
Clematis, 2 year, 1st class,
Andre, Duchess Henryi,
Jackmanii, Ramona, Coccina
and Paniculata Get Our Prices
1,000 No. 1, own roots,
PINK RAMBLER.
1,000 No. 2, own roots,
GEN. JACQUIMINOT

GEORGE BROS., Penfield, N.Y.

WANTED

An experienced man to conduct a NURSERY OFFICE. Business well established. An A-1 position for a CAPABLE MAN. Position ready May first. Reference required. Address "LIFE," care of this paper.

1846

1904

E. Smith & Sons
Geneva, N. Y.

Are offering special inducements on all lines of Nursery Stock



*Write for Prices and
Send List of Wants*

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BARLEY**

SPELTZ

**MAC
WHEAT**

OATS

BROMUS

**ALFALFA
& C.**

SALZER'S SEED NOVELTIES

SALZER'S NATIONAL OATS.

Yea, farmers of America, lend me your ears, while I chant the merits of this new Oat Novelty.

Editors, Agricultural Writers, Institute Orators, all talk and write about this new Oat. It yielded in Wis. 156 bu., in Ohio 187 bu., in Mich. 231 bu., in Mo. 155 bu. and in N. D. 310 bu. per acre, during 1903, and in 1904 you can grow just as easily 300 bu. per acre of Salzer's National Oats, as we can. Your land is just as good, just as rich and you are just as good a farmer as we are. We hope you will try this Oat in 1904, and then sell same for seed to your neighbors at a fancy price, next fall.

Macaroni Wheat.

It does well on arid, dry lands, as also on rich farm lands, yielding from 30 to 80 bu. per acre.

Speltz and Hanna Barley.

Greatest cereal food on earth. Yields 4 tons elegant straw hay and 80 bu. of grain, as rich as corn, oats and wheat ground together! Does well everywhere. Hanna Barley grows on dry, arid lands, yielding 60 bu. per acre.

Salzer's Home Builder Corn.

Positively the biggest eared early corn on earth, yielding in Ind. 157 bu., Ohio 160 bu., Tenn. 143 bu., Mich. 220 bu. and S. D. 276 bu. per acre. It is really a marvelous corn. Sinks its roots deeply after moisture and nourishment and grows like a weed.

Bromus Inermis and Alfalfa Clover.

Bromus Inermis is the most prolific grass for permanent pastures on earth. Yields 7 tons hay per acre. Good on sand, lime, clay, gravel—yes, on all kinds of soils!

Alfalfa Clover produces more hay and better hay than any Clover known. It is good for 7 tons per acre.

Potatoes 736 bushels per Acre.

The Editor of the RURAL NEW YORKER says, "Salzer's Earliest Potato is the earliest out of 58 early sorts tried, and yields 464 bu. per acre, while Salzer's Early Wisconsin yielded for them 736 bu. per acre. Salzer's Potatoes for yield challenge the world!"

FOR 10c IN STAMPS

and the name of this paper, we will send you a lot of farm seed samples, including some of above, together with our mammoth 140 page illustrated catalog. Send to-day.

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University Avenue Nurseries

ESTABLISHED 1865

The CHARLTON GRAPE

Has been awarded Gold and Silver Medals, Bronze Medals and Certificates of merit. The highest flavored **Hardy American Grape**, SUPERB IN QUALITY. Equals Foreign Grapes. Send for descriptive catalogue of it.

We also offer selected 2 yr. Industry, Keepsake and Whitesmith Gooseberries. Also the **New Gooseberry Victoria**. A strong grower, more prolific, and better flavored than Industry.

Soleil d' Or, strong 2 yr. plants. **Nat. Holland Plants**, better ones.

Flowering Shrubs, New Hardy Phloxes, Ampelopsis, field grown, Clematis, etc.

John Charlton & Sons,
ROCHESTER, N. Y.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"Advertising is necessary for the future success of any business firm."—Lafayette Young, Des Moines, Ia.

Vol. XII.

ROCHESTER, N. Y., MARCH 1904.

No. 3

NURSERY INSURANCE.

Chairman Albertson, of National Association Committee, is Procuring Data for a Report—Questions for Nurserymen to Answer—Proposition for Mutual Company.

E. Albertson, Bridgeport, Ind., chairman of the committee appointed by the American Association of Nurserymen, has sent out the following self-explanatory notice:

At the last meeting of the National Nurserymen's Association in Detroit in June, the subject of insurance on nursery storage buildings, grafting rooms, offices (when on packing grounds) and contents of buildings, was treated in a paper by G. C. Perkins, followed by short discussion, but owing to lack of statistics on which to base calculations, nothing definite could be done or proposed.

The Association was very much interested in the subject, and the undersigned were appointed a committee to collect such statistics as could be gotten together and make as full an investigation of the subject as possible, and if practicable to formulate some plans, or bring some suggestions for the organization of a mutual company of our own that would give us insurance at actual cost, or at least at lower rates, and report at the next meeting.

That we may be able to make as full and complete a report as possible, we have prepared the enclosed list of questions, which we think covers the ground, though we shall be glad for any additional information, or suggestions, that you may be able to give us, and we hope that you—one and all—will give this your careful attention, and answer as fully and accurately as possible the questions on enclosed blanks, and return same promptly. And we pledge ourselves to make as full a report as possible to the next Association, and hope we may be able to present some definite plans on which immediate action may be taken for our mutual benefit.

Among the questions and propositions presented are the following:

If a mutual company were organized on a thoroughly practical safe basis, meeting with your approval, how much insurance would you like to carry?

If such a company were organized, would you be willing to pay as much as 1 per cent. (\$10) on the thousand a year on amount of your insurance for two, three, or four years to accumulate a reserve, after which premiums might be reduced as considered safe by executive officers? Reserve to be held and handled by a good trust company, to whom all payments would be made, and who would pay out all monies only on order of the company—thereby guaranteeing the safety of all funds.

Would you be willing to be one of one hundred, or more, to make a cash payment into the company of \$250 to establish at once a reserve of \$25,000, this \$250 to be credited on your insurance at rate of one half of 1 per cent. per year until used up, and other one half of 1 per cent. to be paid each year in cash?

If company were organized on basis indicated, we would not have to bother about short time insurance on stock in storage, but full insurance would be carried through the year, no new policies to be bothered with, or old ones to lapse, if dues were paid, and if heavy losses were not met with, reserve would soon be sufficient to carry insurance without further premium, and all monies paid would be into our own

treasury, and not into some insurance company, never to be seen again unless we met with loss. Risks should be limited to safe amount of \$10,000 to \$25,000, as company might approve, being governed by amount of insurance in force, reserve fund, and other conditions, which statistics, etc., might indicate. Few oldline companies want to carry as much as \$10,000 in one risk.

The other members of the committee are George C. Perkins and William Pitkin. Replies should be sent to the chairman at Bridgeport, Ind.

AN IMPORTANT TRADE MARK DECISION.

The Circuit Court of the United States in the City of Boston handed down, October 26, 1903, a decree restraining Thayer & Co., Cambridge, Mass., from using the word "Painkiller" upon a compound made by themselves and granting a perpetual injunction against their using this name, which was adopted many years ago by Perry Davis, of Providence, R. I., to designate his medicine, and is now the property of his successor, The Davis & Lawrence Co., New York.

The effect of this and other decisions makes it quite clear that no one but the owners of this trade mark has the right to use the name "Painkiller" upon their compounds.

MANY BELIEVE GANO DISTINCT.

Since publishing the explanation by Stark Bros. Nurseries & Orchards Company, Louisiana, Mo., regarding the trade mark case, we have received many letters expressing satisfaction with the statement.

Prof. E. J. Wickson, of the Agricultural Experiment Station at the University of California, Berkeley, Cal., writes:

"I have read with much interest your issue of February and am pleased with the fairness of your comments on the Black Ben Davis-Gano question. I am now carefully studying the two conflicting committee reports and the evidence submitted by the Arkansas committee. So far it seems to me the Arkansas report is unimpeachable and very significant."

N. H. Albaugh, Phoneton, O., writes: "I was especially pleased that you published Stark Bros.' letter on their 'Trade mark' fruits, in last number. Starks are undoubtedly right in this matter. A trade mark is and should be a protection."

Others who have written similar letters are: A. Bentley, Farmington, Ark.; P. M. Love, Carlsbad, N. M.; J. H. Johnston, Brashear, Mo.; W. T. Davis, Buchanan Co., Mo.; W. O. Norval, Oklahoma City, Okla.; Frank Greene, Farmington, Ark.; S. T. Cole, Clyde, Ark.; Charles H. Maxson, Kalamazoo, Mich.; Frank Holsinger, Rosedale, Kan.; Nathan B. Williams, Fayetteville, Ark.; Henry Schroeder, Sigourney, Ia.

R. M. Kellogg, of Three Rivers, Mich., well known as a grower of small fruits, died at his home, February 17th, after a brief illness.

TRADE MARK CASE.

*Resume of the Situation—Statement of Wild Brothers' Position
As to Action Before Trade Marks Were Registered—
What Might Have Been Done.*

The trade mark case in which Stark Bros. Nurseries & Orchards Co., Louisiana, Mo., and James B. Wild & Bros., Sarcxie, Mo., are interested, has caused much discussion. In its December issue the NATIONAL NURSERYMAN clipped from a Carthage, Mo., paper the statement that suit had been begun by Stark Bros. against Wild Bros. for alleged infringement of trade mark. It was stated at that time that the Stark Bros. claimed that it originated the varieties in question. In the next issue of the journal the fact that the case had been voluntarily dismissed by the plaintiffs was published. At the request of Wild Bros., correcting the former statement it was announced that the varieties in question were not originated by Stark Bros., as some supposed; also that the Arkansass State Horticultural Society had adopted resolutions condemning the renaming of Arkansas seedling apples and adopting the local names by which these apples are known in the state; and referring persons interested to Bulletin 49 of the Arkansas Experiment station.

During the time these statements were being made, Stark Bros. were not given the opportunity to state their position in the whole matter, as they deemed should have been done; therefore in the last issue of the journal a communication from Stark Bros. was published, giving their side of the case.

WILD BROTHERS' STATEMENT.

Having given the side of Stark Bros. somewhat at length, it is but just that Wild Bros. should state their case more fully. We are glad, therefore, to present the following statement:

Editor NATIONAL NURSERYMAN: In the year 1886 at Springdale, Arkansas, we first became acquainted with some of the many new Arkansas seedling apples, of which Mr. Wyatt Coffelt's exhibit contained at that time the most promising, and also others of which "Lady Pippin" (or Richardson Red) was one, "Oliver Red," another, (Coss Champion) or (Champion Red) or "Collins Red," were with others, among what we now recall as being promising. First we propagated of the Coffelt collection and later of the other varieties, giving Arkansas credit for all her varieties as we procured them.

As we began to offer some of these varieties in our catalogue and price list, others were offering them under other names. Later we were given to understand by letters and threats of litigation if we continued offering by citing to renames, which were claimed to have been trade marked. This occurred in the latter part of September and early part of October of 1898, before there were any registered trade marks on the varieties in question.

We ignored all such letters and threats, having been furnished positive information from an Arkansas nurseryman who claimed to be "the first" to exhibit, introduce and call attention to new prize winning Arkansas apples.

Since then suit has been brought against us with the result as stated in the NATIONAL NURSERYMAN of January, 1904.

Messrs. Stark Bros., being subscribers to the NATIONAL NURSERYMAN, should have corrected the statement in the January number of the NATIONAL NURSERYMAN (and also the same statement in the American Florist) had they been so minded. But it does not appear in the January number of NATIONAL NURSERYMAN, and now in the February number do they first disavow by saying, "but never claimed to originate, as stated in your article." Then stating further "on these varieties adopted and placed a trade mark or brand to designate and distinguish these trees as propagated and furnished by our nurseries, from trees propagated and furnished by others." Had Stark Bros. taken out trade marks conforming to these statements on the varieties in question as follows: Stark Oliver (instead of Senator) Stark Collins' Red (instead of Champion), Starks Reagans Red (instead of Black Ben Davis), Starks Beach (instead of Apple of Commerce), it would have been apparent to any one that the trade mark names indicated the nursery firm that the trees were from without further notice.

A QUESTION OF NOMENCLATURE.

And in so doing it would not have been so much a means of confusing the nomenclature of the varieties, as originally known. This they seem to have later discovered as they have taken out a trade mark on a variety of grape, "Starks Star Grape," although first sent out by the originator, we understand, as "Uncle Sam."

Now as to promised assistance "from almost all (nursery) firms of recognized standing." Do they favor confusing the nomenclature of the already many varieties of fruit that the American Pomological Society has been so long in striving to straighten out? If so, let them declare themselves. Nor would any recognized pomologist of which we here call to mind these statements by one as follows: "Renaming is especially dangerous if not positively reprehensible, except after passing the scrutiny of properly constituted committees and meeting their approval." "The American Pomological Society and the Division of Pomology, jointly, constitute our national authority on all matters of this kind."

Yours respectfully,

JAMES B. WILD & BRO.

Those who are especially interested may obtain from the West Publishing Co., St. Paul, Minn., for 25 cents, the full opinion in trade mark cases bearing directly upon this subject. In view of the frequent reference to trade marks on fruits, etc., these opinions will be of value.

The firm of C. P. Carpenter & Sons, Winona, Ontario, Canada, has been dissolved. The nursery branch will be continued by C. W. F. Carpenter, the fruit branch by C. P. Carpenter and T. H. P. Carpenter.

"How to Make a Flower Garden," a manual of 370 pages, profusely illustrated, is one of the latest products of the well-known publishing house of Doubleday, Page & Co., New York. This book is written by experts and covers every branch of the subject. It contains many accounts of actual experience in various parts of the country which are of especial value. The appendices alone are of great value to gardeners, professional or amateur. The contributors include Prof. L. H. Bailey, William Falconer, O. C. Simonds, Sarah Hopkins, Alice M. Rathbone, Patrick O'Mara, W. C. Egan, P. J. Berchmans, Warren M. Manning and many others. The introduction is followed by nineteen chapters and three appendices. Buckram, 8vo, New York; DOUBLEDAY, PAGE & Co. Rochester: SCRANTON, WETMORE & Co.



TWO-YEAR-OLD EVERGREEN SEEDLINGS IN WINTER QUARTERS ON GROUNDS OF R. DOUGLAS' SONS, WAUKEGAN, ILL., NURSERIES.

EVERGREEN SEEDLINGS WINTERING.

We present herewith an interesting cut showing how evergreen seedlings pass the winter at the Waukegan, Ill., Nurseries of R. Douglas' Sons.

Robert Douglas, the founder of the Waukegan Nurseries, bought his first nursery stock in 1848. He was the first person in America to raise evergreens from seed in the open air. He was laughed at by New York Nurserymen when he said he would send nursery stock from Illinois to the East, but before his death he had sent millions there. This nursery was the first to introduce Blue spruce, Douglas spruce and other Colorado evergreens to the trade. The firm confined itself to evergreen seedlings and forest tree seedlings from 1862 to 1895 when it added a general nursery stock. It has made the largest forest planting of any firm in the world, over 3,000,000 trees being used. The business is now being conducted by two sons of the originator under the name of R. Douglas' Sons.

The March issue of *Country Life in America* is a gardening manual number, containing many spring features. Wilhelm Miller describes the Arnold Arboretum under the title "The World's Greatest Tree Garden." Numerous articles cover a wide range of practical subjects and the wild flowers and nature of the spring woods and fields.

Dreer's Garden Book for 1904, published by Henry A. Dreer, Philadelphia, is a veritable encyclopedia regarding up-to-date matters connected with seeds of all kinds. It is a handsome publication of 208 pages, four colored plates, many half-tone views and an embossed cover showing the Shirley poppy. The most complete list of the kind in America or Europe is here shown.

Among Growers and Dealers.

E. L. Parmenter, Menominee, Mich., will enter the nursery business this spring.

T. E. Cashman, Owetonna, Minn., will continue the business of L. P. Lord & Co., who have sold out to him.

E. B. Lewis, Lockport, N. Y., died January 21st. He leaves a widow, five children and 13 grand-children.

The Wichita, Kansas, Nursery Company has purchased 18 acres in Wichita for the planting of nursery stock.

C. L. Whitney, Warren, O., has purchased 100 acres at Thomasville Ga., which he will plant as a pecan orchard.

The imports of nursery stock—plants, trees, shrubs, vines, etc.,—into the United States for the year ending June 30, 1903, showed a total valuation of \$1,373,198, against \$1,172,570 for 1902, an increase of \$200,628.

John Watson, of the Pioneer Nurseries Co., Salt Lake City, formerly of Texas, is the secretary of the recently formed King Standard Oil Company, of that city. The company will work the Farmington Oil fields in Utah.

P. Loef Az will withdraw from the firm of P. Loef Az & Co., Boskoop, Holland. J. C. Von Heiningen and P. J. Von Heiningen will continue the business under the name of Von Heiningen Brothers & Co., Boskoop, Holland.

Superintendent Laney of the Rochester, N. Y., park board advocates the planting of the elm, red oak, oriental plane, sugar maple, tulip and canoe birch in city streets. He discourages the planting of the horse chestnut and the sycamore maple.

The Riverside County, Cal., supervisors have passed a law giving the county board of horticultural commissioners power to destroy all nursery stock imported from any place, where peach yellows, peach rosette, phyloxera, red spider or white fly prevail.

The National Nurseryman.

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock
of all kinds. It circulates throughout the United States and Canada.

Official Journal of American Association of Nurserymen.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Six Months,75
Foreign Subscriptions, in advance,	1.50
Six Months, " "	1.00

Advertising rates will be sent upon application. Advertisements
should reach this office by the 20th of the month previous to the date
of issue.
Payment in advance required for foreign advertisements. Drafts
on New York or postal orders, instead of checks, are requested.
Correspondence from all points and articles of interest to nursery-
men and horticulturists are cordially solicited.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., MARCH, 1904.

AMERICAN ASSOCIATION OF NURSERYMEN.

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- Committee on Exhibits—R. C. Berekmans, Augusta.; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester.
- Committee on Cost of Growing Trees—Wilson J. Peters, Troy, O.; W. F. Heikes, Huntsville, Ala.; Theodore Smith, Geneva, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

- AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.
- NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.
- AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.
- EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.
- WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, F. H. Stannard, Ottawa, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.
- SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.
- SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.
- TEXAS NURSERYMEN'S ASSOCIATION—President, F. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.
- PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

TARIFF ON NURSERY STOCK.

A practical topic for consideration at the Atlanta convention next summer is the tariff on nursery stock. The treasury department has ruled that the appraiser cannot state the prevailing prices upon which the duty is to be collected. Importers must name the price. If this is above the official standard the importer is allowed to pay the good round duty. If it is below that standard the appraiser may advance it and collect in addition as penalty an extra duty amounting to 50 per cent. of the total revaluation.

CREATION OF NEW FRUITS.

At the St. Louis meeting of the Society for Horticultural Science, Dr. H. J. Webber, of the U. S. Department of Agriculture, presented, as some of the results of recent attempts in breeding hardy oranges, the citrange and the tangelo. The fruits of the citrange are about the size of a tangerine orange, have a thin skin, are very juicy, and are nearly seedless. The texture of the pulp is excellent, but the fruit is rather sour. In flavor citranges are more like lemons or lines than oranges, but they resemble no other fruit in existence. The tangelo is a cross of the tangerine orange and the pomelo. Both of these fruits are new creations and can be grown no further north than the common orange. It is believed that within the next decade hardy edible oranges may be produced. L. C. Corbett discussed co-ordination of horticultural work and a uniform scheme of note-taking for varieties of plants in different localities, so that nurserymen can with greater confidence recommend varieties for a given locality. A permanent committee was appointed for this work.

A BUSINESS PROPOSITION.

The mails are flooded with periodicals published for the general instruction or entertainment of their readers. A man may choose from these what he will read.

But in the matter of a trade journal pertaining exclusively to his business the nurseryman has no choice. There is but one nurseryman's journal. THE NATIONAL NURSERYMAN is a business journal for business men. It is not for entertainment; it is for business, from cover to cover. It keeps the nurseryman informed upon nursery matters all over the country and the world at large. Its readers repeatedly say that they could not do business without it because in these days of competition the enterprising nurseryman must know what his brother nurseryman is doing. He must get new ideas and he must have the very latest information regarding the location of stock that he needs.

All these things and much more are provided by the NATIONAL NURSERYMAN, the official journal of the American Association of Nurserymen. This journal has always had the interests of the nursery trade first at heart and it should receive the united support of all who believe that nursery interests should be safe-guarded at all times and in all places. To all our subscribers we extend appreciative recognition of their warm endorsement and to those who are still outside the fold we say: "Come and join us." The dollar for the subscription is not chargeable to expense; it is simply a commission advanced for a sure return of many fold.

STORING NURSERY STOCK.

Views of an Expert on Storage Buildings — Advantages and Disadvantages Under Present Systems — Winter Storing to Become Universal — Nurserymen Interrogated.

Upon the subject of storing nursery stock, Madison Cooper, of Minneapolis, an expert in the construction of storage buildings, writes for the NATIONAL NURSERYMAN:

It is within recent years that the digging of trees from nursery row in the fall and storing during the winter for spring shipment has come to be an established feature of the nursery business. This subject was brought to the writer's attention by a discussion between nurserymen of the advisability of the method. In this discussion the term "Cold Storage" was used in reference to the cellars or sheds in use for the purpose.

Having a great interest in cold storage matters, the writer determined to get the best information obtainable from those actually using the storage method. Letters of inquiry were therefore sent out to representative nurserymen. That nurserymen are in the main progressive and liberal minded is evident from the interest shown and the careful replies received. The writer hopes that nurserymen will excuse the conceit which allows an outsider to write regarding a business with which he is not intimately familiar. This article is, however, no mere theory or opinion by the writer, but information carefully gleaned from those actually engaged in the business and put in shape by one who has had a long experience with the cold storage of perishable products.

From the information contained, it is beyond doubt a fact that a majority of nurserymen, especially the larger and more progressive, are using frost-proof winter storage facilities of one kind or another. A few are using artificial cooling, but as a general proposition, this is not as yet fully appreciated. In time, no doubt, this feature will also come to be permanent, not only for maintaining regular temperatures during winter, but should there be an overstock of certain varieties in the spring, it would result in a great saving to store the surplus over until the next shipping season.

ARTIFICIAL COOLING.

Artificial cooling is another step in advance of frost-proof storage in the same sense that fall digging and frost-proof storage is a step in advance of the old method of digging at shipping time in the spring. It is natural that every planter should want his trees immediately as soon as the frost is out of the ground. The result is that they all want their stock at the same time. As a consequence, nurserymen who do any considerable amount of business and have no storage facilities have more than they can attend to in the spring. Even with this almost impossible problem to solve, there are many who are not converted to the storage method, so a few words regarding its advantages and alleged disadvantages will be timely. The advantages may be stated as follows:

PROTECTION FROM LOSS.

A few years ago thousands of dollars worth of trees and vines were killed during a severe spell of extreme low temperature during the winter at a time when the ground was nearly bare of snow. It is also believed that nursery stock is in

better condition to thrive when dug in the fall and stored in an even temperature approximating the freezing point than if allowed to stand in the nursery subject to wide fluctuations of temperature which will cause injury to a greater or less extent, depending upon the severity of the winter and snow protection afforded.

PROMPT SHIPMENT.

If no storage is provided, digging must be done in the spring after frost is out of the ground. Frost is not generally out of the ground until April 1st, sometimes later. This means that a large part of the trees are not finally planted until May 1st to June 1st, and perhaps not until the leaves have started. Trees set under those conditions do not thrive and many die.

SAVING IN LABOR.

The shipping season is so short that if trees were all dug and shipped after frost is out of the ground the necessity of having a large and well trained force to get the shipments out promptly would be very expensive. With storage facilities, stock can at convenience be graded, counted and put in bundles ready for packing by cheap help during the winter. Trees may be dug in the fall at a much lower cost than in the spring, owing to more abundant available labor and dryer working conditions. Less hands are required as the labor is more evenly distributed.

THEORETICALLY CORRECT.

Trees dug late in the fall are dormant from natural causes and will stand handling, shipping and planting much better than trees dug after frost is out of the ground in the spring. After frost is out, sap starts and the tree is more liable to be damaged by rough usage and replacing. A dormant tree held at about the freezing point will retain its vitality almost indefinitely.

BAD EFFECTS OF WINTER STORAGE.

The disadvantages or bad effects of winter storage as claimed by those who oppose the method, are that trees dry out and mould when stored and that when finally set the percentage of trees which die is greater. It is also claimed that among the stock which survives, the growth is retarded and the trees handicapped by at least a year's growth as compared with freshly dug trees. Plenty of evidence is obtainable from disinterested parties that these effects result in some cases.

These bad effects are, however, not from defects in the method, but from careless or unskillful handling or lack of suitable storage facilities. Farther on we will take up the construction of suitable buildings. It is notable that the advocates of freshly dug trees are almost wholly of the "old-line" element who stick to old customs, because some few failures have resulted from the winter storage method. This method, which has barely passed the experimental stage cannot but record some failures on account of improper application.

WINTER STORAGE TO BE UNIVERSAL.

Nurserymen who advocate and sell freshly dug trees are handicapped in the handling of their business and the increasing of same to any considerable proportions is practically impossible. From the preponderance of evidence in favor of winter storing, it seems that this will be universal in due time.

We have then to consider the most approved methods now in use and suggestions for possible improvements.

Next month we will consider the most improved methods of winter storage now in use, the buildings in use and difficulties encountered.

WILLIAM A. PETERSON.

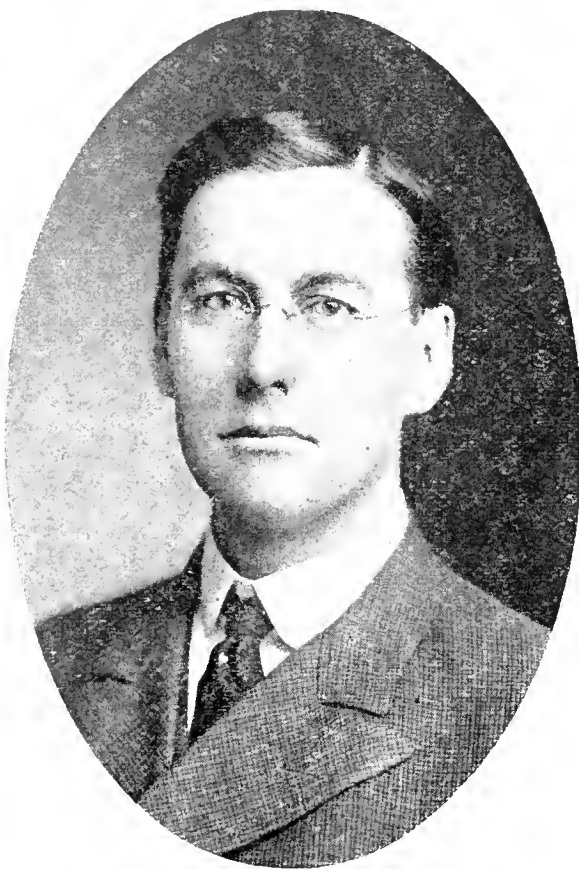
William A. Peterson, the proprietor of the Peterson nursery, was born in 1876 at the old homestead in Jefferson, now a part of Chicago. To an inherited good constitution, with a mixture of Swedish and Puritan blood in his veins, the outdoor life at the nursery gave full sway. He rode horseback a great deal and attended the high school at Evanston, riding daily the six miles thither and was not only diligent in his studies, but also took an active part in all kinds of athletics.

At 18 the young viking, six feet four in height, had fitted himself for college, but owing to the sudden death of Mr. Lillja, his father's right hand man, it was thought best for the son to enter business at once. This was a great disappointment, as he was naturally a student, which is testified to by his choice library numbering to-day some four thousand volumes including old manuscripts, rare first editions, the oldest printed book in Chicago and many Latin, French, German and Scandinavian books, both on horticultural and other subjects. This booklore was supplemented by extensive travels at home and abroad, during which he acquired a familiarity with the best examples of landscape. He has had exceptional opportunities in Europe, being entertained by various court gardeners, such as at Potsdam and St. Petersburg, as these gentlemen had been associated with the elder Peterson at Louis Van Houtte's establishment in Ghent.

Being the only child, he employed his otherwise lonely hours in making collections, and the fact that there were on the premises several Indian village sites made it easy to acquire the very large collection of stone implements which forms the nucleus of his well-known museum.

Possibly his scientific work among the peonies has brought his name most prominently before the people. He has long been an enthusiastic Sunday School worker and is identified with many philanthropic movements.

Mr. Peterson brought home a wife in 1892, who has since aided the mother in making the old manor house a center of much social life. He belongs to the Union League, Chicago Athletic, Caxton and other clubs. In 1895 he was made a member of the firm and since then has been its manager. The making of landscape plans is quite an adjunct to the steadily increasing business. The present management is keeping up the old-time reputation of the concern.



WILLIAM A. PETERSON.

Long and Short.

Pin oaks are proffered by William Warner Harper, Chestnut Hill, Pa.

L. R. Taylor & Sons, Topeka, Kan., are headquarters for apple trees.

Evergreens are a specialty with the Scotch Grove Nursery, Scotch Grove, Ia.

D. S. Lake, Shenandoah, Ia., wants Snowballs and white and yellow Ramblers.

T. W. & J. P. Rice, Geneva, N. Y., offer a general line of high grade nursery stock.

Rakestraw & Pyle, Kennett Square, Pa., offer surplus stock for spring of 1904.

Hardy ornamentals of all kinds may be had of Henry A. Dreer, Philadelphia, Pa.

Baldwin and Ben Davis apple trees are offered at a bargain by Charles Ernst, Moscow, O.

This season marks the golden anniversary of Thomas Meehan & Sons, Dreshertown, Pa.

One hundred acres of nursery lands are offered near Emporia, Va., by the Emporia Nurseries.

Shrubs, evergreens, roses and hardy plants are specialties with Ellwanger & Barry, Rochester, N. Y.

Fruit trees and ornamentals, tree diggers and cultivators may be had at L. G. Bragg & Co.'s, Kalamazoo, Mich.

Rosa multiflora Japonica, any size and quality, can be had of the California Rose Company, Los Angeles, Cal.

Standard apple and pear in carload lots, complete assortment, at Pioneer Nurseries Company's Salt Lake, Utah.

Native ornamental trees, shrubs, plants and vines, ferns, etc., are offered by Sackett Bros., Lebanon Springs, N. Y.

Peters & Skinner, North Topeka, Kan., have a fine stock of apple, peach, cherry and standard pear; also grape vines and small fruits.

The firm of C. P. Carpenter & Sons, Winona, Ontario, Canada, has been dissolved. The nursery branch will be continued by C. W. F. Carpenter, the fruit branch by C. P. Carpenter and T. H. P. Carpenter.

The Shenandoah Nurseries, Shenandoah, Ia., have in cold storage at Rochester, N. Y., for early spring shipment stock listed in another column, all well graded and first-class.

Standard fruit trees and small fruits may be had of Paul Hauber, Tolkerwitz, Germany. Shipments are made to all countries. He makes a specialty of trees trimmed and trained.

Readers of the NATIONAL NURSERYMAN will be interested in the bulletin just issued by the division of zoology, department of agriculture, Harrisburg, Pa., giving treatment for combating the San Jose scale. In addition to the directions, it gives an illustration of an apparatus for boiling "lime-sulphur-salt wash" in barrels or tanks with live steam. Prof. H. A. Surface, economic zoologist, will be pleased to send copies of this bulletin to all those who ask for it.

PUBLICATIONS RECEIVED—"Insects Affecting Forest Trees," by E. P. Felt, D. Sc., state entomologist of New York, a handsomely printed monograph illustrated with half-tone engravings and lithographs; "Boskoop in Words and Pictures," by J. W. De Ruyter, a beautifully printed description of the seat of J. Blaauw & Co.'s Nurseries at Boskoop, Holland, including views of their home, office and grounds as well as views in the vicinity; "What to Plant and How to Plant it," an attractive catalogue of the Pomona Nurseries, Griffing Brothers Co., Jacksonville and Miami, Fla., illustrated; catalogue of Phoenix Nursery Co., Bloomington, Ill., Experiment Station Record, Vol. XV, No. 4; bulletin on grapevine root worm, by Dr. E. P. Felt, New York, entomologist; proceedings of annual meeting of Georgia Hort. Society,

NEW GEORGIA RULES.

Regulations In Case One or More Blocks Have San Jose Scale — Rules Applying to Nurserymen Who Ship Stock Into the State.

At its annual meeting at Macon, Ga., January 26th, the Georgia Board of Entomology adopted regulations providing that no trees, shrubs or other plants commonly known as nursery stock shall be sold, delivered or given away within the state of Georgia without being plainly labelled with the certificate of the state entomologist and that application shall be made for inspection on or before July 1st, each year.

Heretofore it has been necessary under the regulations for the Department to refuse certificates whenever a nursery, or any part of it, has been found infested with San Jose scale. Under the new regulation a nurseryman may secure a certificate covering stock which is not infested and which is not in immediate danger of becoming infested, even though one or more blocks of his nursery may have scale in them. It must not be understood from this, however, that infested stock will be allowed upon the market, or that a certificate will be granted covering stock which is in dangerous proximity to San Jose scale.

Regulations applying to nurserymen outside of Georgia who ship stock into that state are as follows:

"Any person or persons residing in states or countries outside the state of Georgia, dealing in or handling trees, shrubs or other plants in this state, or shipping trees, shrubs or other plants therein, shall file with the state entomologist (Atlanta, Ga.) a certified copy (or signed duplicate of original) of the certificate issued by the entomologist, fruit inspector, or other duly authorized official of the state or country in which said stock was grown. Such certificate for nurseries south of the north boundary line of North Carolina, Tennessee and Arkansas must be based upon an inspection made not earlier than July 1st; and for nurseries north of said line, upon an inspection made not earlier than June 1st. Said person or persons shall also file with the state entomologist a signed statement in which said person or persons agree to fumigate with hydrocyanic acid gas all stock shipped into the state of Georgia. Such fumigation shall be in a manner approved by the state entomologist. Upon receipt and approval of the certificate and statement above-mentioned, the certificate of the Georgia State Board of Entomology will be issued to the applicant without charge, and official tags bearing a fac simile copy of such certificate and the seal of the state board, will be furnished such applicant at cost of printing, viz: 60 cents for the first one hundred or part thereof, and 25 cents for each additional hundred."

The officials of Georgia impose no fees upon nurserymen who desire to ship stock into the state, and wish to encourage all reliable nurserymen to handle nothing but strictly-first-class stock, free from injurious insects and diseases. To all such the State Board of Entomology offers every facility for doing business in Georgia. However, nurserymen who fail to comply with the state laws and with the regulations of the board or who ship infested stock into the state will be rigorously dealt with. Wilmon Newell is the state entomologist.

MAY GET THE TREE FINALLY.

Nurserymen will be interested in the following article from the Richmond "Times-Dispatch":

A native Virginia tree will shortly, through the courtesy of Governor Montague and City Engineer W. E. Cutshaw, be planted on the public square at Indianapolis, the gift having been requested by the governor of the Hoosier state some time ago, though the end can only be reached by easy stages.

Mr. Kelley, of this city, yesterday offered a bill in the House to exempt city and town nurseries from the operations of the crop pest law, which requires the rigid inspection of all trees shipped out of the state, and behind it is an interesting little story.

Not long ago the governor of Indiana requested Governor Montague to give him a certain kind of Virginia tree to plant on the Capitol grounds in Indianapolis. The tree was to have been secured from the city nursery, and Colonel Cutshaw was anxious to accommodate Governor Montague, and the latter wanted to conform to the wishes of his Hoosier contemporary, but it was found that the state law prohibited the shipment of the tree without a great deal of expense and red tape. So, in order to have the thing legally and properly done, Mr. Kelley has offered his bill at the request of Colonel Cutshaw, and when it shall have passed, the tree will be shipped.

NEW TARIFF RULING.

Under date of February 9, 1904, the assistant secretary of the U. S. treasury writes to the appraiser in New York as follows:

Referring to the Department's letter addressed to you under date of July 13, 1901, wherein, owing to the alleged inability of importers of nursery stock, such as seeds and bulbs, to inform themselves as to the foreign market value at the time of shipment, and to the perishable nature of the goods and other exceptional circumstances attending such importations, you were authorized to supply importers with data relating to the different foreign market values of such merchandise, without, however, making any suggestions as to the value to be declared on entry, I will state that the Department is in receipt of information to the effect that there seems to be no good reason why importers should not be as familiar with the foreign market value of seeds, plants and bulbs as importers are with the values of other goods.

It appears that frequently where merchandise of the character in question is raised under contract, the contract price is accepted as the foreign market value; that in a year when there is an abundant crop the contract price may represent the true foreign market value, but that should there be a partial failure in the crop, the contract price may not represent such value.

In this connection it further appears that it has been the practice at one or more ports to average invoice values in order to arrive at the foreign market values of goods of the above description, which practice is disapproved.

In view of the foregoing, it is hereby directed that the practice aforesaid be discontinued.

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	\$42.50
From Buffalo	
To San Francisco, Portland, Los Angeles, Tacoma, San Diego, Seattle;	\$40.00
Spokane, Ellensburg, Wenatchee, Umatilla, Pendleton;	\$39.50
Helena, Butte, Anaconda, Missoula, Ogden, Salt Lake City, Pocatello;	\$34.00
Billings, Mont., and all intermediate points.	

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JAMES GASS, N. Y. S. P. A., Wabash Railroad,
287 Main Street, Buffalo, N. Y.

A St. Louis World's Fair INFORMATION BUREAU has been established at 287 Main Street, Buffalo, N. Y., in charge of R. F. Kelley, where information will be cheerfully furnished.

CALIFORNIA FRUIT CONDITIONS.

The twenty-ninth convention of California Fruit Growers, at Fresno, is thus summarized by the Country Gentleman:

President Cooper said the season just closed was not as disastrous as that of 1902. Walnut growers had received higher prices than ever before, but the future of this industry is menaced by a blight which in some districts reduced the crop one-half. The association has offered a prize of \$20,000 for a feasible remedy. Shipments of table grapes have given excellent results, but wine grapes have not sold at prices that would pay for their production. Olive-growing remains uncertain, owing to the substitutions and adulterations used in making olive oil, and their being forced on the market at ruinous prices. The ripe olive pickle is, however, in great demand, and a large market is offered to the careful grower. Almonds have sold at higher prices, but the uncertainty attending their culture forbids its encouragement. The prune question is also unsettled. The citrus industry was never more depressed; orange shipments not successful; lemon was worse. Many lemon growers will either bud with oranges or root out their trees. Still, many new plantations are noted through the citrus districts. Alden Anderson reported the season's shipments of deciduous fruit at 7,668 carloads, of which 1,867 were peaches, 1,802 grapes, 1,719 pears, 1,145 plums and prunes, and 670 apples, exceeding last year by several hundred carloads. This fruit was distributed to 131 cities. Most of these shipments were made by the California Fruit Distributors.

EVERGREENS

The rooty, symmetrical, thrifty, home-grown, transplanted sort that will grow again.

Colorado Blue Spruce (Picea Pungens) 8 to 36 inches inclusive. Any color from green to silvery shiners.

Balsam Fir, 18 to 48 inches inclusive. Any number, grade or degree of excellence

Norway Spruce, 18 to 36 inches inclusive. The best lot we have ever grown.

White Pine, 24 to 48 inches. A choice lot

Arborvitae (American), 24 to 48 inches, inclusive. The bushy, rooty kind.

Arborvitae (Pyramidalis), 60 to 84 inches. A few choice big pyramids.

Send for list and let us know how many and what you need.

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We are especially heavy on Standard and Dwarf Pears and Peaches.

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T. W. AND J. P. RICE, PROPRIETORS
GENEVA, N. Y.

Surplus Stock for Spring, 1904

Apples, $\frac{3}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

Cherries, sweet and sour, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

Peaches, all grades.

Japan Plums, all grades.

Bartlett and Kieffer Pears, $\frac{3}{4}$ and up.

American Persimmons, American Chestnuts, English Filberts, Butternuts, Asparagus, 2 year; Osage Orange, 2 year; California Privet, 2 year; Catalpas, American Elms, Laburnums, Yellow Locusts, Maples, Oaks, Poplars, Salisburias, etc.

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500 Snowballs, 3-4 feet.
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8 to 10 feet. $1\frac{1}{2}$ to 2 inch caliper.
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14 to 18 feet. 3 to $4\frac{1}{2}$ inch caliper.

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A Few Sworn to Yields.

Salzer's Beardless Barley, 121 bu. per A.
Salzer's Homebuilder Corn, 304 bu. per A.
Salzer's Big Four Oats, 250 bu. per A.
Salzer's New National Oats, 310 bu. per A.
Salzer's Potatoes, 736 bu. per A.
Salzer's Onions, 1,000 bu. per A.

All of our Farm and Vegetable Seeds are pedigree stock, bred right up to big yields.

Salzer's Speltz (Emmer).

Greatest cereal wonder of the age. It is not corn nor wheat, nor rye, nor barley, nor oats, but a golden combination of them all, yielding 80 bu. of grain and 4 tons of rich straw hay per acre. Greatest stock food on earth. Does well everywhere.

Salzer's Million Dollar Grass.

Most talked of grass on earth. Editors and College Professors and Agricultural Lecturers praise it without stint; yields 14 tons of rich hay and lots of pasture besides, per acre.

Salzer's Teosinte.

Salzer's Teosinte produces 113 rich, juicy, sweet, leafy stocks from one kernel of seed, 14 feet high in 90 days; yielding fully 80 tons of green fodder per acre, doing well everywhere, East, West, South or North.

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GROWER AND EXPORTER OF

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SHADE TREES AND PAEONIES.

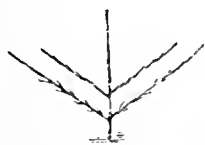
1500 AM. ELMS, Fine. 8 to 10 feet. 1½ to 2 in. cal.
900 BOX ELDERS. 9 to 12 feet. 1½ to 2 in. cal.
500 CATALPA. 8 to 10 feet. 1½ to 2 in. cal.
90.00 ROSE PAEONIES, a fine double rose pink.
2000 HUMEI PAEONIES, a fine pink variety late.

This stock is in excellent condition. Must be removed from ground before
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1-7 2 Year Old Strong.

Grape Vines
1 and 2 Year Old.

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2 Year Strong.

Strawberry Plants
From Plants planted Spring 1903.

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Peach in Dormant Bud.

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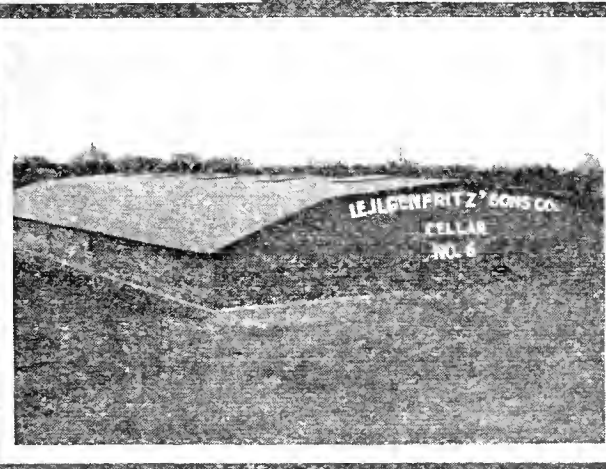
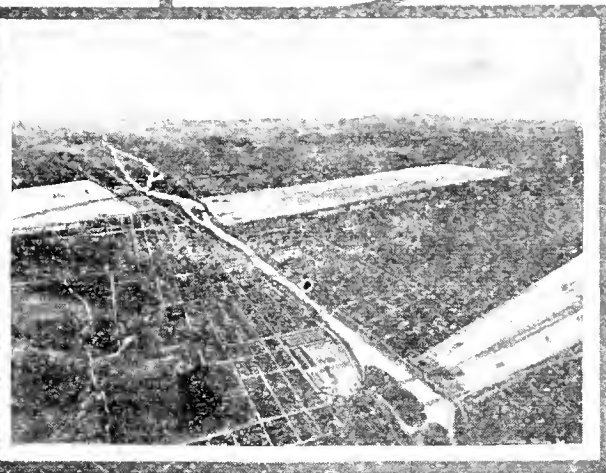
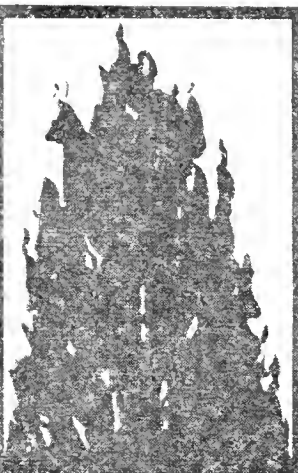
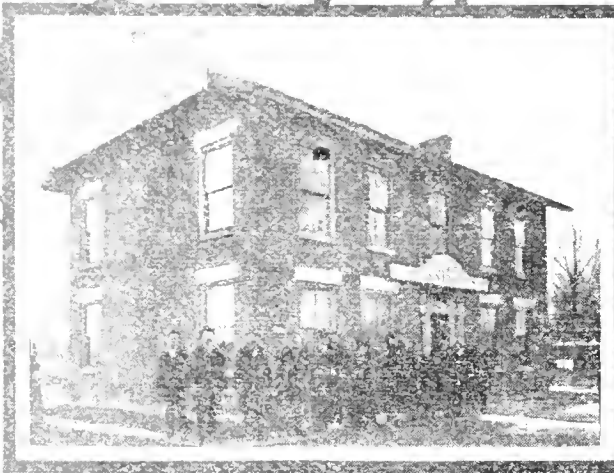
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The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XII.

ROCHESTER, N. Y., APRIL, 1904.

No. 4.

CELEBRATED APPLE TREE CASE

**Summary of the Action Brought Against John W. Adams & Co.,
of Springfield, Mass., By Edwin F. Miller For Alleged
Breach of Warranty in the Sale
of Apple Trees.**

The case of Edwin F. Miller, of Williamsburg, Mass., against J. W. Adams & Co., nurserymen, of Springfield, Mass., has just been tried the second time.

This case was first tried in the Superior Court in Northampton, Mass., during the February term of the Court in 1903, and a verdict of \$604 was returned for the plaintiff. In the fall of 1903 this verdict was set aside and a new trial ordered, on the ground that new and important evidence had been discovered.

On March 1st of this year the second trial was begun and on March 8th a verdict for the defendant was returned, reversing that of a year ago.

The suit was brought to recover damages of \$3,000 alleged to have been suffered from the sale of one hundred and fifty Gravenstein apple trees sold the plaintiff and which he claimed were not true to name.

The action was brought over eleven years after the sale of the trees and some five years after the said Miller discovered, to his satisfaction, that the trees were not what they were bought for. The plaintiff testified that he bought the trees of an agent of J. W. Adams & Co. in the year of 1891 or '92, the exact date he could not remember; that the agent warranted the trees to be of the Gravenstein variety and that they would bear apples of that variety when they came into bearing, and that in case they did not bear apples of that variety that the defendant would make him (Miller) good for all loss that would accrue from such failure. His wife testified to practically the same thing, and they claimed that only the agent and themselves were present at the time the order was given. Mr. Miller further testified that when the trees first bore fruit, on a dozen or fifteen trees, in 1896, he was convinced from the similarity of the trees in bearing and the rest of the orchard, that the entire lot was not true to name, but that he waited until 1898 before he notified the defendant of his discovery, and at his request the defendant visited him and that he informed the defendant of the warrant given by the agent and that he agreed to back up anything the salesman had agreed to do. That part of the trees were regrafted the next two springs and paid for by the defendant company, but that said grafting was not a satisfactory settlement and was not considered a settlement by the plaintiff, Mr. Miller.

The plaintiff further testified that the ground upon which he had planted the trees had been plowed and manured heavily and cultivated for two years before the trees were set, and that for three years thereafter it was manured and planted to corn and potatoes and thoroughly cultivated and was then seeded down to grass; that the trees were properly trimmed, manured and washed and sprayed until 1898, after which, on the advice of his attorney, no care had been taken of the orchard. The plaintiff claimed that the trees had never been grafted or budded, but were native or common cider apples, although he admitted that a very large portion of the orchard bore apples of one kind.

Several witnesses for the plaintiff, none of which were acknowledged experts, (one was a depot master, one a foreman in a brass shop, one a freight handler), only two having orchards of their own and only one of these growing apples of the variety in question for market, testified that the fruit was not of the Gravenstein variety and that it was a worthless fruit for market. All of the witnesses for plaintiff testified that they did not see the fruit until the last of September.

The defendant denied that their salesman had authority to make any other warranty than the one printed on their regular order blank, in use in 1890, and which stated that the trees should be delivered in good condition, that they should be not less than five feet in height, and that any other condition of sale should be in writing and subject to the approval of the proprietors. The salesman testified that he gave no other warrant than the one printed on order blank, and the defendant said that the question of warranty was not discussed at the time he was at the Miller place in 1898.

TRUE GRAVENSTEIN, DEFENDANT CLAIMED.

The defendant claimed that the fruit borne on the trees in 1903, seen on August 18th, was true Gravenstein but lacked quality owing to the very apparent lack of cultivation and proper fertilizing and trimming; not a sign of trimming was visible except where grafting had been done. It was claimed by them that the Gravenstein tree had distinct characteristics that would easily distinguish it from any other variety of apple trees, and that the orchard in question bore these distinguishing features. Many sizes of trees were shown on a plan of the orchard prepared from measurements taken of each tree, showing trees varying from one and three-fifths inches to nine and one-quarter inches, all of which the plaintiff claimed were planted at the same time, thirteen years ago. All of these trees were equally vigorous and were intermixed. These small trees were testified to by several experts as being, in their opinion, planted some years after the original trees were set.

For the defendant, J. H. Hale of Connecticut, J. W. Clark

of Massachusetts, (largest grower of Gravenstein apples in the state), E. C. Powell of the Farm and Home and others testified as to the genuineness of the fruit and also to the true characteristics of the trees, and also that in their opinion about one-third of the orchard was interplanted later than the original trees. Edwin Hoyt did not see the trees in fruit, but testified that there was no doubt as to the genuineness of the larger trees in the orchard, and that in his opinion the small trees could not be as old as the large ones.

Defendant's witnesses also testified that apples growing on the grafts set in spring of 1899 and 1900 were identical with apples seen on trees adjoining and not grafted and upon the branches not grafted.

All of the above witnesses told of the very poor condition of the orchard and apparent lack of cultivation.

FARM HAD BEEN LEASED.

It was also developed by witnesses for the defense that the farm on which the orchard was planted had been leased, beginning in the fall of 1890; that instead of being plowed two years before the trees were planted it was not broken up until the same month the trees were set, and before that date had been used as a pasture; that little manure was used in preparing the soil and for only two seasons was it cultivated, after which it was seeded down and for the next five years the grass was cut and taken off, while no manuring was done, and the parties who hired or worked upon the place during the seven years testified that no trimming or other work was done on the trees.

Several professors from the Massachusetts Agricultural College, who testified for the plaintiff in the first trial, were not called on the second trial. One of these visited the orchard with Mr. Hale and others in 1903.

The plaintiff's side introduced sections cut from the trunks of the trees in the orchard in question, of which the diameters were eight, five and three inches. Engineer E. C. Davis, who cut the sections, testified that the rings in these sections showed them to be of the same age, though they varied in size. This testimony was introduced to offset the claim of the defense that trees not sold the plaintiff by the defendant had been placed in the orchard at a date later than the original planting of the orchard.

DEFENDANT'S OFFER.

The defendant's side met this evidence by asking Mr. Davis when he was on the stand what he would charge to go to Haydenville and get sections of two trees which the defendant's son would point out. Mr. Davis placed the charge at \$5, and soon started for Haydenville with the younger Mr. Adams. When he returned the additional sections were entered as exhibits in the case without comment.

It is understood that the case has been appealed.

Prof. C. S. Sargent, of the Arnold Arboretum, who recently returned from a six months' trip in Russia and Siberia, sent home 8,000 specimens of bulbs, seeds and plants.

Country Life in America for April with a superb cover of magnolia blossoms in colors carries the breath of spring and growing things. Among the leading articles of the large and beautiful number are, "The Vanishing Beaver," a wonderful first-hand story of these rare animals in the forest with many remarkable photographs of wild beavers working; "The Problem of the Soaring Bird," by Frank M. Chapman, illustrated with some of the best examples of Mr. Chapman's wild-bird photography; "Magnolias—The Trees that have the Largest Flowers," with consideration about selecting and planting.

Among Growers and Dealers.

Thomas E. Cashman, president of the Clinton Falls Nursery company and manager of the Lord Greenhouse company, has been re-elected mayor of Owatonna, Minn.

The Reliance Nursery company, Geneva, N. Y., has been incorporated; capital, \$20,000. The directors are: John M. Twomly, Timothy J. Twomly, Mary E. Twomly, of Geneva.

The Miller Nursery company, Rochester, N. Y., has been incorporated with a capital of \$30,000 by Fred A. Miller, Ada M. Miller, of Rochester, and George M. Kellogg, of Hornellsville.

The Capital City Nursery and Orchard company has been incorporated at Indianapolis. Capital, \$10,000. Incorporators: H. G. Beckner, Elijah A. Henby and Onia Beckner.

The partnership of Cannon Bros., who have been conducting a nursery business at Detroit, Minn., has been dissolved. The firm is succeeded by Cannon & Anderson, O. D. Cannon having sold his interest to A. W. Anderson.

Prof. Marlatt, of Washington, D. C., says that many California fruit growers regard the San Jose scale as having been a real boon, because so many good results have followed the treatment for its destruction.

The Sunnyfield Nursery Co., Poughkeepsie, N. Y., has been incorporated for carrying on a general nursery and florist business, with a capital stock of \$5,000. The incorporators are: Frank B. Lown, John B. Grubb and Harry C. Barker.

J. H. H. Boyd, of Gage, Tenn., has purchased a half interest in the Perry Bros. Nursery company at Irving College, Tenn., buying out Taylor Perry, Jr. The business will be conducted under the firm name of Boyd & Perry, with Mr. Boyd as general manager.

Thomas Meehan & Sons, Germantown, Pa., has established a retail branch at 503 Tradesmen's building, Pittsburg, in the charge of Warren J. Chandler, who has for years been connected with the home establishment, and J. Franklin Meehan and S. Mendelson Meehan.

The men on the farm, and the women, too, will find plenty to interest and amuse them in The Youth's Companion of March 24th. Professor Lanciana tells about farming in the plains around Rome, and R. B. Morrill, Jr., contributes a capital story of a competition for a corn prize, entitled "Saltpeter-Water."

Charles A. Sadler, a wealthy nurseryman, of Bloomington, Ill., died at his home, March 10, 1904, from an attack of pneumonia, at the age of 46. He embarked in the nursery business as a traveling salesman for his father. He secured an extensive knowledge of the business and two years ago bought the plant of the Home Nursery company, and last summer also purchased the business of the F. S. Phoenix nursery. Mr. Sadler was associated in business with his brother, William. He is reputed to have left a fortune estimated at \$100,000.

Otto Katzenstein and S. Z. Ruff announce that they have formed a partnership for the purpose of exploiting extensive fields of Rhododendron Catawbiense and kindred plants which they have acquired. They will do business as the firm of Katzenstein & Ruff in Atlanta, Ga. Mr. Katzenstein was, since their inception about eight years ago and until recently, manager of the Pinehurst nurseries at Pinehurst, N. C. Mr. Ruff is a plantsman and collector, with extensive practical experience gained in charge of large and private plantings.

The executive committee of the International Apple Shippers Association reported that on February 1st there were in the United States 1,628,148 barrels of apples in cold storage and 589,670 in common storage as against 2,139,949 in cold and 748,770 in common storage on February 1, 1903. In Canada there were 119,750 barrels, in Nova Scotia, 112,800, an increase of 94,300 barrels over 1903. The total quantity of apples in the United States, Canada and Nova Scotia on February 1, 1904, was 2,450,458 barrels, as against 3,124,689 on February 1, 1903, a decrease of 674,231.

H. L. CLARK, Paris, Tex.—"Enclosed find \$1 for renewal of subscription. I might, but I do not like to be without the NATIONAL NURSERYMAN. So please keep it coming."

FAVOR THE NURSERYMEN

Pacific Coast Association Secures Concessions from the Horticultural Inspectors as to Time and Doubt Regarding Crown Gall — Result of Conference.

During the fruit growers' convention in Portland, Ore., the Pacific Coast Nurserymen's Association took up the matter of the delay in the inspection of trees and delegated the president, S. A. Miller, and M. McDonald to confer with the inspectors at their meeting in Pullman.

It was agreed that inspectors should have three days' notice prior to the day of delivery, and if unable to inspect the trees within that time, that planters should be allowed to take their trees, and where the inspector deems it necessary he is to inspect subsequently on their premises. It was also agreed that where nurserymen have a large number of orders to deliver in one county on closely following dates, notice of such deliveries be given sufficient time in advance to both the commissioner and the inspectors to enable them to provide any needed deputies.

In a number of cases trees have been held up on complaint of crown gall. A number of the specimens were sent to different experiment stations and were reported not to be crown gall. Small enlargements are found on roots from various causes, many times from the effects of grafting. Nurserymen are anxious to keep crown gall out, and desired some ruling on that point. It was agreed that in case of doubt the trees should be passed.

IN TENNESSEE NURSERIES.

The nursery business in Tennessee is one of the coming industries of the state, says State Entomologist George W. Martin. Owing to great ranges of climatic conditions and soil composition, together with the undisturbed element and cheapness of labor, Tennessee is fast becoming one of the leading nursery centres of the South.

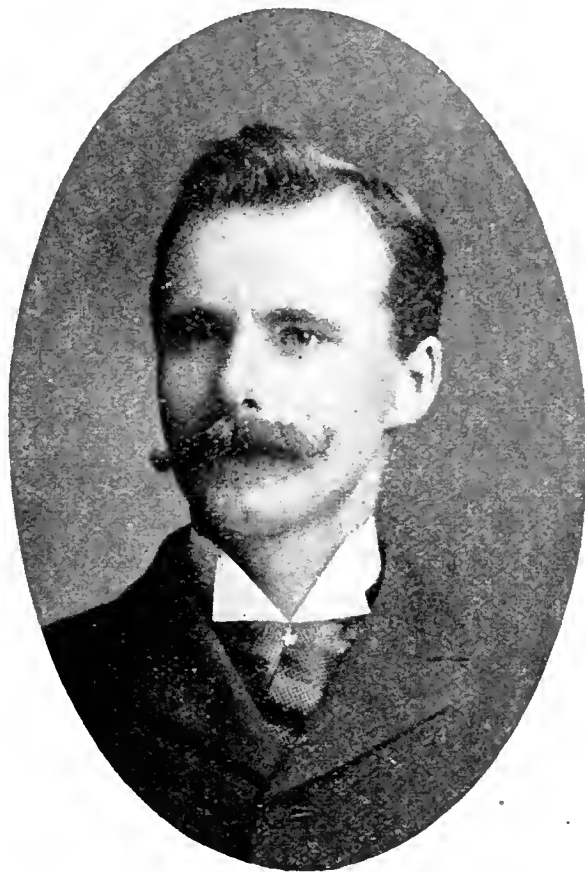
The number of nurseries and the amount of stock grown are annually increasing. Since July 1st, 1903, 130 inspections have been made and certificates issued to the same. In cultivation, the nursery interests of the state embrace about 2650 acres, distributed as follows: East Tennessee, 800 acres; Middle Tennessee, 1,700 acres; West Tennessee, 150 acres.

The nursery-stock grown in the above named divisions embrace the following varieties: Apple, 7,148,000; apricot, 18,000; apricot, 18,000; cherry, 1,002,000; grape, 92,100; nuts, 376,000; peach, 9,921,600; pear, 748,800; plum, 294,400; quince, 34,400; roses, 72,150; shade-trees, 1,100,550; evergreens, 57,050; raspberry, 160,000; strawberry, 5,820, 500; total, 26,846,500.

The above figures do not include several infested places, where the San Jose scale, oyster-shell bark louse, woolly aphis and other kindred diseases invalidated the sale of the stock.

It may be stated with pride and great credit to the state that Winchester is the greatest nursery centre of the state, and is rapidly becoming the nursery centre of the whole South.

The following inventory of stock taken for the past year will prove the above assertion: Apple, 3,444,500; apricot, 15,000; cherry, 482,500; grape, 50,000; nuts 176,000; peach, 8,469,000; pear, 530,000; plums, 220,000; quince, 27,000; roses, 52,000; shade trees, 90,000; evergreens, 25,000; raspberry, 3,000; strawberry, 500,000; total 44,084,500. The foregoing figures show that Winchester not only grows as much stock, variety for variety, (in good many cases, more, in few cases less) as the rest of the state combined, but grows more. Knoxville, which is another great nursery centre, easily ranks second.



JOHN A. CHARLTON.

The nursery conditions in the state are good, considered from the viewpoint of dangerous nursery diseases. With the present protective measures inaugurated by the state, and with the assurance that Tennessee will soon have her nursery and fruit industries safeguarded by better laws, the equal of any other great fruit state, have greatly stimulated the nursery and fruit interests the past few years. Within the last year the number of nurseries has increased 25% and the amount of trees has nearly doubled. Likewise, the number of orchards and amount of trees planted have more than quadrupled.

But few states in the United States have, as before mentioned, as great a variety of natural conditions, so productive of tree-growth as Tennessee. No state can produce finer trees, or fruit-plants in general, and not even as fine, especially when the work is conducted with the best scientific training. When

the people of the state awake to the real natural advantages presented, and with the highest cultural methods obtainable co-operate with these natural conditions, then Tennessee will share with other states the oft-repeated epithet, "The banner fruit-state of the United States."

JOHN A. CHARLTON.

John A. Charlton was born in Rochester, N. Y., January 30, 1865. He received a common school education, and a years' business training in the Rochester High School, after which he began his business career with his father, and continued with him until 1898, when he and his younger brother became partners' of the firm of John Charlton & Sons. Mr. Charlton has always devoted close attention to their large and ever increasing business interests, he having the personal supervision of the growing of the greater part of the complete lines of nursery stock.

The National Nurseryman

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Official Journal of American Association of Nurserymen.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., APRIL, 1904.

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WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, F. H. Stannard, Ottawa, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

PRESIDENT HALE FOR CONGRESS.

Hon. N. W. Hale, president of the American Association of Nurserymen, president of the Knoxville Nursery company and president of the Southern Nursery company, has been nominated for Congress on the republican ticket from the second congressional district of Tennessee by a substantial majority.

As this district has a large republican majority, the nomination is equivalent to Mr. Hale's election to Congress next fall. Mr. Hale has represented his district in both branches of the state legislature with marked ability and success, and the nurserymen of the United States together with the people of Tennessee are to be congratulated in having as a representative in Congress a gentleman of such high character and well known executive ability.

SAMPLE OF GOVERNMENT AID.

One of the youngest members of the House of Representatives, Mr. Sheppard, of Texas, made a determined and persistent effort to bring about a reform in the matter of the distribution of seeds by the government. Mr. Sheppard's first move was to have stricken from the agricultural appropriation bill certain sections providing the machinery for the distribution of the seeds authorized to be purchased under the bill.

In this he was successful, his point of order being sustained by the chair, but on an overwhelming vote the house promptly added the sections to the bill by way of amendment. Only three members voted in opposition to the restoration. Mr. Sheppard's further effort was to secure an amendment to the restored sections which would provide for the purchase of rare and untried seeds, but the amendment failed, and the bill was left just as the committee brought it into the house, so far as seeds for free distribution were concerned. With a few minor amendments the bill passed the house without division.

PROPAGATION OF FRUIT TREES.

In a recent article in the American Agriculturist, George T. Powell says:

The best apple trees to purchase are those grown upon French stock. The seedlings have a much longer season in which to grow in France, and become much larger and stronger. They are imported by the best nurserymen and these trees thus budded are more valuable, as the influence of these strong French stocks is clearly seen in the more rapid development of the orchards for years after being planted. In these times of growing competition, it will pay the fruit grower to make use of every principle that will give him the best and most economical results in his business."

This advice is well meant, but according to Prof. A. T. Erwin, of the Iowa Agricultural Experiment station, experience has shown that there may be some doubt as to the value of the French stock. The most serious problem before us in connection with orchard growing is that of root killing. Every few years we have a severe winter, which destroys the root system of thousands of larger apple trees. In many

cases we find the roots entirely dead up to the point of union, while any roots which have been emitted above this are sound and healthy. This naturally suggests that the roots from the scion and stock are of an unequal degree of hardness, or in other words, that the root of American origin is hardier than the French upon which our trees are commonly grafted. For those living in severe sections, the American grown apple seed is very much superior to use for stocks, and the other should never be used if it can be avoided.

NURSERY INSURANCE.

E. Albertson, Bridgeport, Ind., of the American Association committee on insurance, is anxious to receive returns on the circular he sent out, so that he may make a report for the Atlanta convention.

A sample reply to Mr. Albertson's request is from George Peters & Co., Troy, O., who say:

Enclosed herewith we hand you the statement concerning insurance, filled out as requested. This has been delayed somewhat and trust you will pardon same. We would recommend the forming of a company such as your committee proposes. This statement will show you what we would be willing to do in case you organize a company or arrange for some trust company to take hold of the matter and secure for us such protection as would be required. We hope this arrangement will be successful and that we may be released from the old-line companies.

AS TO COUNTERMANDS.

C. S. Harrison discusses in the Twentieth Century Farmer the case of a Nebraska planter who complains that after he had bought apple trees at 20 to 25 cents each and cherry trees as 40 to 60 cents each, he received circulars from another nursery firm offering apple trees at 5½ cents, peaches at 5 cents and cherries at 25 cents, and ash at \$1.50 per 1,000 when he paid \$5 per 1,000. He asks if he should not throw up the contract in view of this apparent "fraud."

Mr. Harrison says he has gone through the lists of the leading nurseries East and West and finds that the prices the Nebraska planter paid are no higher and not as high as some. He quotes E. F. Stephens, Crete, Neb., as follows:

"Many a man who would be ashamed to drive a \$10 horse buys poor nursery stock advertised at cheap price because he does not understand that there are as many grades in nursery stock as in horses. An inferior tree is a poor investment at any price. The too cheap catalogue in any business is a give-away. Gold dollars are not sold for 50 cents. If you wish to achieve results buy the best trees and you will have them."

On the subject of countermands Mr. Harrison says:

"One man this winter sent in a countermand order on quite a bill. He said he had sold his farm. He had not, but simply had seen an advertisement where he could get cheap trees for a good deal less and so lied out of his contract. It is a sad and mortifying spectacle to go over the state in the fall and spring and see thousands of trees that have been ordered in good faith at the delivery grounds and the purchaser pays no attention and does not go after them. The nurseryman has been to great expense, has paid the freight and there is the result. The countermand order is on and it takes two to make a bargain and it takes two to unmake it. First, get the consent of the nursery before you countermand and pay for the loss involved."

THE ATLANTA CONVENTION.

The annual convention of the American Association of Nurserymen will be held at Atlanta, June 22d-24th. The secretary, George C. Seager, has prepared announcements to the members, the executive committee has arranged for headquarters at the Piedmont hotel, and the programme committee is preparing a schedule of business.

Southern nurserymen are especially active in behalf of the convention, and it is hoped by all that there will be a large attendance.

The following announcement has been mailed to the southern nurserymen by the Alabama Nursery Company, Huntsville, Ala.:

While yet early in the year we want to urge on all our nursery friends, especially in the South, to make their plans to attend the meeting of the American Association of Nurserymen to be held at the Piedmont Hotel, Atlanta, Ga., June 29th and 30th and July 1st, 1904. It is to the interest of the Southern nurserymen to turn out a big attendance at this meeting, and if any nurseryman receiving this circular is not a member of the American Association of Nurserymen, he should by all means send his application, accompanied with membership fee of \$2.00, to George C. Seager, Secretary, Rochester, N. Y., and have his name enrolled on the membership list in time to secure a badge book.

Not only should he become a member of this Association, but he should attend this meeting, which is probably the only one that will be held in the South for many years to come. The Southern delegates at Detroit meeting last June had a stiff fight to secure this meeting for Atlanta. We all want to see it a rousing success and your membership and attendance will assist the cause wonderfully. At this meeting you will have the opportunity of meeting and making the acquaintance of the leading nurserymen of the United States.

Special rates will be granted at the Piedmont hotel, which is one of the finest hotels in the country, and a round trip rate of one and one-third fares will be granted by the railroads on the certificate plan. Now is the time to get your name enrolled as a member of the American Association of Nurserymen.

VALUE OF BUD SELECTION.

C. M. Peters in a communication to the Rural New Yorker, says:

We certainly think, and have proved to our satisfaction, that to propagate from a bearing tree that shows health and superior fruit over other trees of the same variety is an advantage to be gained in no other way. Our mode is to propagate from the bearing tree first and then from the nursery row from trees budded from the selected bearing tree. Our theory, from practical experience, is that from the nursery row, we get much healthier buds. A tree at one or two years old standing in nursery row, where it must have all the attention possible to make it grow and present the best of appearance, should be preferable to the tree standing in the orchard. My opinion is that the younger the tree that we select our buds or grafts from the better. In this we are renewing vigor from those that have not had their vigor exhausted by bearing fruit or otherwise. There is but one thing in favor of selecting from the bearing tree over the nursery row that I see as of importance, which is a good one. That is, it insures variety beyond a doubt, for the fruit on it shows beyond question what you are propagating. If it were not for this I would not favor selecting from the bearing tree at any time. But we must for self-protection of our customer go back to the fruiting tree, at times when we are convinced that we can improve the variety by so doing, or we think we can.

J. J. Hess, writing to American Florist, says: "On my trip through Southern Germany, I visited W. Rall's nursery at Elmingen, Wuerttemberg. It is one of the cleanest nurseries I have ever seen. He has 130 acres of fruit and ornamental trees, shrubs, conifers and hardy roses, and does an extensive business, wholesale only, employing eighty men. He also handles seeds and has an extra large building for that department."

WINTER STORAGE.

Present Methods Among Nurserymen Outlined and the Disadvantages and Advantages Noted — Changes in Temperature—As to Moisture —Trenching Trees for Winter.

Some of the nurserymen who do not advocate winter storage, admit the need of something better than spring digging by "heeling in" or "trenching" their trees for the winter in a protected place which will drain naturally. They admit that this allows of possible damage to the tops of the trees in severe weather, but it saves time and wet digging in the spring. As an improvement over this it is only another step in the solution of our problem to put a shed over these heeled-in trees to protect the tops from low temperature during severe weather. This is a common method and is practiced by some very large nurserymen. A frost proof cellar or shed is provided in which the trees are heeled-in in the fall, so as to have them ready for spring shipment. The storage shed is kept at the freezing point or somewhat above, so that sorting, grading and packing may go on independent of weather conditions outside, enabling shipments to be made as early as desirable in the spring. Much storage space is needed with this method and under some conditions the trees may dry out or shrivel, but the heeling-in storage method has the advantage of being more independent of temperature changes than where the stock is piled up with roots exposed. A change of temperature is largely what causes the drying out of trees, owing to the change of humidity with the temperature changes.

STRUCTURAL CONDITIONS.

Most of the winter storage structures in service are built partly below the surface, but many of the largest are wholly above the ground. Nearly all are insulated by building air spaces into the walls or by a filling of shavings, sawdust or similar non-conducting materials. It is the idea in building partly below ground to secure the protection afforded by the earth. It is a well known fact that at a depth of a few feet below the surface of the earth a nearly stationary temperature of about 55° F. may be obtained winter and summer. This will prevent freezing in winter if the cellar is rightly built, but it will likewise cause a marked rise in temperature whenever a winter thaw occurs and it becomes necessary to close the building tightly. The heat of the earth will then work up into the storage room and a temperature of 40°F. to 50°F. may result. Another disadvantage of the cellar is that when the first trees are stored during the fall, the surface of the earth is quite warm, and it is very difficult to keep the temperature of the cellar low enough. Ventilators, windows and doors are opened on a cold day or at night, and in this way the temperature is, after considerable delay, finally reduced to the desired point. A warm spell alternating with cold weather in the fall after storing commences will result in a great deal of damage by causing the temperature of the cellar to vary greatly. A variation of temperature and consequent variation of humidity will cause a drying out or shriveling of the trees, and may cause a growth of mold or mildew.

A building wholly above ground has many of the disadvantages above mentioned, and also the disadvantage of lack of protection during extremely cold weather. There are, however, advantages in above ground construction in that the building if of frame construction will not rot out as quickly, and it may be cooled more readily in the fall, and it is not affected so much by heat from the earth. It is stated by many nurserymen that temperatures are very difficult to maintain in any of the ordinary sheds or cellars in use, especially during the storage season in the fall and during the shipping season in the spring. Winter storage for nursery stock should be so arranged that when natural temperature is suitable, air may be taken from the outside and forced into the room for refrigerating and when natural temperatures are not suitable, as during a warm spell in fall or spring, or during a winter thaw, artificial refrigeration may be applied. Moisture brought in with stock—especially if the fall has been a wet and warm one—might cause mold. A proper cooling and temperature regulating system would prevent this.

CHANGES IN TEMPERATURE.

From the data at hand, it seems clear to the writer that practically all of the damage to nursery stock experienced in winter storing in cellars or sheds as ordinarily practiced comes from changes of temperature, and a generally too high temperature, which cannot by present methods be avoided. It has been noted that trees dug late in the fall and placed in storage after the temperature of storage-room has been reduced to about the freezing point have carried through in better condition than those dug at an earlier date and placed in storage while the temperature of the room was still comparatively high. This may be partly because the wood is more dormant, but it is probably largely because it is easier after about November 15th to keep down the temperature of the storage room. A high temperature and frequent changes of temperature will cause stock to dry out and shrivel. This is especially true of vegetation of quick growth such as peach trees. To prevent this drying out, a spraying with water is often resorted to, but this again leads to mold or mildew if the temperature is high and not very carefully handled.

AS TO MOISTURE.

One nurseryman states: "When stock is put in late in October and November, it needs no wetting at all, but stays damp all winter and spring;" another says: "In our own case, we find on account of the ups and downs of temperature, we must sprinkle with water more or less, but we believe that with a fixed temperature that did not vary to any great extent, the water could be omitted." No better argument could be made for low and uniform temperatures. There is no question at all that trees may be dug any time after October 1st, or after the tree is dormant from natural causes, placed in a temperature of 28°F. to 30°F., held steadily until spring, and come out in better condition for planting than stock allowed to remain in the nursery all winter and dug at the shipping time. Humidity must be attended to, but this is very easy to regulate at the low temperatures mentioned. As to temperatures at which trees should be held there seems to be a wide difference of opinion, no doubt this opinion is

largely influenced by the temperatures it is possible for each individual nurseryman to maintain in his storage cellar.

Nearly all admit the difficulty of keeping uniform temperatures and opinions as to correct temperatures vary from 30°F. to 50°F. No doubt 30°F. will produce better results than any of the higher temperatures. It has been demonstrated in the history of preserving perishable products by refrigeration that the lower the temperature at which any particular product may be carried without damage from such low temperature, the better and longer it may be kept in cold storage. Certainly a temperature of 30°F. cannot injure nursery stock if it is able to withstand severe winter weather with any degree of success. It seems reasonable therefore that this is a suitable temperature to maintain.

In the May number we will look into the question of humidity as it affects our problem and the relation between humidity and temperature. Description of a suitable refrigerating and temperature regulating system will be given.

THE BALLAD OF THE NURSERYMAN.

In Spring when nature wakes from her long sleep,
And rises from her couch at break of day,
She breaths a sigh of gladness swift and deep,
And o'er the harp of life her fingers stray.
"Rejoice!" she cries, "Our time of rest is o'er,"
Then on her harp she strikes a wondrous chord,
And sings, "O world awake! 'Tis Spring once more!
And now the Nurseryman reaps his reward!"

The blades of grass and tender blossoms peep
From out their dark homes 'neath the sodden clay;
The life blood of the trees begins to creep,
Through tiny sap veins, tingling all the way.
And as with us, some half forgotten lore
Returns to mind, the trees with one accord
Draw in the breath of Spring at every pore,
And now the Nurseryman reaps his reward.

And mortals who have seen the slow months creep,
While they, shut in, must all reluctant stay,
Now hail the Springtime with a pleasure deep,
And turn to labor with a spirit gay.
They flit like birds from out the wide thrown door,
They fall in rapture on the greening sward,
Their hands itch for a hoe as ne'er before,
And now the Nurseryman reaps his reward.

Ye princes, let them dig the garden o'er,
And let them play the string in monochord,
For they must needs buy shrubs and seed galore,
And now the Nurseryman reaps his reward!

\$15.00 BUFFALO TO ST LOUIS AND RETURN VIA WABASH RAILROAD.

Tickets on sale, May 12th. Good to return leaving St. Louis up to midnight of May, 18th. The Wabash is the only line with its own rails from Buffalo to World's Fair Grounds, main entrance. These tickets good in our modern reclining chair cars free. Solid vestibule trains from Buffalo to St. Louis without change, at convenient hours. For full information, enquire of your local ticket agent and see that your tickets read via Wabash from Buffalo, or write R. F. Kelley, general agent, or James Gass, N. Y. S. P. A., 287 Main Street, Buffalo, N. Y.

WESTERN NEW YORK RETAILERS

*Form a Trade Organization for the Advancement of Cordial
Business Relations and the Prosperity of the Nur-
sery Industry—a Banquet and Election.*

On March 10th the retail nurserymen of Western New York decided to form an organization for the mutual benefit of the members and the advancement of nursery interests. E. O. Graham was the chairman and Edward S. Osborne the secretary of the temporary organization. On March 19th a banquet was held at the Powers hotel which was attended by the retail nursery firms of Rochester and surrounding points and by the office forces of those firms. Nearly eighty persons were present.

A permanent organization under the title National Association of Retail Nurserymen was formed, with the election of the following officers: President, William Pitkin, Rochester, N. Y.; vice-president, Orville G. Chase, Geneva, N. Y.; secretary and treasurer, John B. Kiley, Rochester; executive committee, C. W. Stuart, Newark, E. S. Osborne and Walter W. Wyman, Rochester.

The following firms were represented at the dinner: Allen Nursery company, H. J. Bowden, Brown Bros. company, E. J. Bowden, G. Costich & Co., Chase Bros. company, Charlton Nursery company, Charles H. Chase, Ellwanger & Barry, Glen Bros., F. E. Grover & Co., Graham Nursery company, Hooker, Wyman & Co., Hawkes Nursery company, R. D. Luetchford & Co., George Moulson & Son, Olver Bros. company, Rochester Nursery company, H. S. Taylor & Co., Western New York Nursery Company, Irving Rouse, C. L. Yates, Pinnacle Nursery company, all of Rochester; Clark Nursery company, Peirson Bros. company, Waterloo; C. W. Stuart & Co., Newark; R. G. Chase & Co., Geneva.

At the tables were the following:

H. C. Peck, John D. Kase, T. G. Moulson, C. H. Peck, J. M. Campbell, W. L. Manning, F. T. Burke, C. L. Boothby, Thomas Marks, E. H. DeForest, J. B. Nellis, J. R. Hanna, E. Mayo, S. M. Allen, Gilbert Costich, C. H. Hawks, George W. Olver, B. Frank Allen, L. G. Pendill, Walter W. Wyman, F. A. Devoll, C. G. Hooker, C. A. Leclair, William C. Barry, R. M. Bond, E. O. Graham, John Kusse, Charles J. Brown, G. T. Walters, Edward S. Osborne, Thomas McGlennon, H. C. Phillips, L. Hayward, Peter F. Williams, J. S. McGlennon, A. E. Bicknell, J. M. Charlton, T. F. Andrews, F. E. Grover, Phil H. Farber, A. H. Dale, James A. Ryan, J. Franklin Dale, William Pitkin, Charles H. Chase, W. F. Webb, G. E. Wyman, F. V. Taylor, Horace Hooker, H. J. Bowden, Ernest J. Bowden, H. S. Taylor, Irving Rouse, Charles G. Schoener, Ralph T. Olcott, Charles J. Maloy, A. A. Mosher, C. L. Yates, John C. Shaw, R. D. Luetchford.

Also the following named nurserymen from out of the city: C. W. Stuart, J. M. Pitkin, Jr., W. M. Gould and F. M. Phelps, of Newark; O. G. Chase, G. R. Watson, of Geneva; H. W. Clark and S. J. Pierson, of Waterloo.

William C. Barry addressed the nurserymen on the value of trade organizations and social gatherings.

The dinner committee was composed of B. Frank Allen, Charles J. Brown and Walter W. Wyman.

PROUD OF THE BUSINESS

*William C. Barry, Addressing the Western New York Retailers,
Praises the Work of the Nurseryman and Shows its
Great Value to the Planter.*

William C. Barry, of the firm of Ellwanger & Barry, Rochester, addressing the newly formed association of retail nurserymen, said:

"Ours is a business of which we may well be proud. During the sixty or seventy-five years that the nursery business has been in progress in this country much good has been accomplished. What if there had been no business of this kind? What would have been done with the barren ground? What would we have lost without the orchards of the country? What the conditions are with all these things you know, and you can appreciate the value of them by the comparison which I have suggested. You who saw the apple trees laden with their crops last fall will never forget the sight. The fruits were more beautiful than I have ever seen them; they were more highly colored. These Western New York apples are now sent all over the world. They command admiration in the remotest parts of the earth. Think of the many who use them, how they are prized and admired and how they attract attention to our section of the country.

"All this is the result of the work of the nurseryman and the efforts of his canvassers. We think some canvassers are not up to our ideals and we seek to educate them. Many of them do not get up to the mark; yet some who started selling trees have become great organizers through their experience in approaching men.

"The nursery business is being conducted today in such a manner that we may be continually prouder of its achievements. The business is increasing from year to year and with greater safety to the planter. The nurseryman are affording the means for the orchardist to increase the value of his land and to derive a steady income. You should do all in your power to extend this business. Yours is a business for the welfare of mankind. How much better is this business than some others that we know of. I congratulate you on the successful launching of this organization and hope it will live long and prosper."

CHEAP RATES AND THROUGH SLEEPERS TO THE ATLANTA CONVENTION.

Nurserymen and their friends going to Atlanta, Ga., to attend the National Convention in June are advised that specially reduced rates will be arranged for this occasion by the railroads interested. Through sleeping cars will be operated from Rochester, via the Northern Central to Washington, D. C., thence via the Southern Railway to Atlanta.

For those delegates who come from Ohio, Indiana, Illinois, etc., through sleeping cars will be operated from Cincinnati, via the Queen & Crescent Route through Chattanooga, thence Southern Railway. Persons desiring berths in these cars should communicate promptly with Mr. C. L. Yates, business manager, at Rochester, or with representatives of the Queen & Crescent Route at Cincinnati, or with L. S. Brown, general agent, Southern Ry., Washington, D. C., C. L. Hopkins, DPA, Southern Ry., Philadelphia, A. S. Thweatt, eastern passenger agent, Southern Ry., 271 and 1185 Broadway, New York, and full information will be furnished.

CENTRAL MICHIGAN NURSERIES, Kalamazoo, Mich.—"There is too much value in the NATIONAL NURSERYMAN for us to get along without it. Enclosed find draft for \$1 to cover renewal for the coming year."

EXHAUSTING NURSERY LANDS.

In a communication to the Gardener's Chronicle, London, England, J. J. Willis, of Harpenden, says:

The result of a test shows that but a small amount of plant food is removed from the soil by the growth of nursery stock. The most exhausting tree is the apple; the next is the pear; but any ordinary fertile soil, cultivated as nursery lands usually are, should easily furnish in three years ten times the amount of plant food used by the trees.

Two reasons have been assigned for the failure to raise successfully nursery stock continuously on the same land. The first is, that the trees have exhausted all the readily available plant food, and since nursery stock, to be at its best, must have an early and rapid growth, it is impossible without weathering the land and allowing some of the plant-food in the subsoil to rise to the surface, to secure satisfactory results. It should be kept in mind in this connection that under proper culture and conditions, in dry weather, nitrogenous plant-food rises from the sub-soil to near the surface, while in very wet weather it may pass from the surface downwards.

Nursery trees get a large proportion of their nourishment from the subsoil, and during the few years that the ground is occupied by them a portion of the available plant food in the subsoil is used. This would explain in part the difficulty of using land continuously for growing young trees.

The digging of the trees is usually performed late in the autumn or early in the spring, when the soil is little better than a mortar-bed. The digging and tramping, especially on clay soils, when the land is in this condition, puddle it, and the larger part of the available plant-food is thereby locked up; and it requires one or two years of culture, and even manuring, to bring the land back to its normal condition. But all these explanations do not fully account for the imperfect growth of the second crop of trees, for after having removed the trees from the land, if it be thoroughly ploughed and cultivated, there appears to be no difficulty in raising a good crop of wheat, barley, grass or potatoes.

In the haste to get the trees off at as early a period as possible, the grower is not satisfied unless they are making a rapid, continuous growth; that is, he asks more of the land in his method of culture than does the wheat or potato grower; and therefore, as soon as the land hesitates in the least when planted with a second crop of trees, he puts it down as a partial failure.

This explanation is emphasized by the fact that many orchardists have come to believe that nursery trees under present management are forced so rapidly, and make such soft growth of wood, that they are injured thereby. Those trees which have been forced to unusual growth, when set in the orchards under less favorable conditions than were present in the nursery row, start slowly, and frequently are unable to make a satisfactory growth of good wood for two or three years.

It has been found that an application of wood-ashes and lime (air-slacked), 25 to 30 bushels per acre, greatly assists the land in maintaining a nursery stock of fruit-trees. Apple-wood always improves with wood-ashes and lime, even on limestone lands.

WHOLESALE VS. RETAIL PRICES.

Editor NATIONAL NURSERYMAN:—

Kindly allow me to call attention to a practice that seems to be common among some nurserymen. About a year ago a gentleman handed me an invoice of nursery stock he had just purchased from one of the leading firms of Rochester, N. Y. I saw at once they had made the prices the same as in their semi-annual trade list on many items. Yesterday while conversing with a prospective purchaser I asked him if he had a list of his wants. He handed me the bill as it came from one of the leading firms in Ohio, and I was much surprised to find on many items a discount running as high as 40% from their regular list to nurserymen and dealers. At the meeting of the American Association of Nurserymen at Milwaukee in 1902, these questions were asked: "What per cent. should be added to the wholesale prices for the protection of salesmen and dealers, when the wholesaler sells direct to the planter?" "Should nurserymen buy of nurserymen who send their wholesale lists to planters?"

To the first question I would say 20 to 25 per cent.; to the second I would answer emphatically NO? Then how about the firm who discounts their own wholesale list to the planter? It is up to the retail nurseryman to answer: "What show has your salesman against such a deal?" Yet both firms are members of the American Association of Nurserymen.

I would like to have the views of other nurserymen on this question, as it probably concerns as many nurserymen as Gano vs. Black Ben Davis

Elgin, Ill.

E. W. CARBARY.

THE MONROE NURSERY.

The frontispiece of this number gives various views of the buildings and scenes of The Monroe Nursery of I. E. Ilgenfritz's Sons Co., at Monroe, Mich. This establishment was started by I. E. Ilgenfritz in 1847, who died in the Spring of 1895. The business has been continued by his five sons. In the fall of 1902, the business was incorporated as a stock company, the five brothers being the sole owners of the stock.

As can be seen in one of the views, the Nursery farms are located at all quarters of the city coming within its limits. Between eight and nine hundred acres of the very best lands are devoted to the cultivation of general Nursery stock, but more especially to growing of apple, pear, peach, cherry, plum, etc. Much of the product of this nursery finds its way to planters directly and through traveling salesmen, and a portion is supplied to nurserymen in all parts of the country.

Nurserymen and visitors are cordially invited to inspect this nursery at any time and can always be assured of a hearty welcome.

DEFECTS IN NURSERY STOCK.

W. H. Skillman in his address at the New Jersey Horticultural Society, said that among causes of defects in nursery stock may be mentioned the following: One cause of diseased peach stock is in the pit, in not coming from natural stock but from diseased orchard trees and through the agency of canning factories. Over fertilization to get a large, smooth

tree to send out is a source of evil; the nitrogenous fertilizer used to force the trees lessens the vitality, and removing it to a less highly-fed soil does the rest. Stripping leaves from the young trees that have been held until too late is injurious. The tree and leaf are co-existent, ripen together, and the stripping undoubtedly kills many leaf buds. Other errors in their ways are: Digging the trees and letting them stand; running the tree cutter along cuts the ends of the roots and cripples the tree; cutting back peach trees that remain unsold and letting them grow another year, thus sending out a three-year-old root with a year-old top, and keeping stock dormant too late. Black pith is a sure indication of disease. Every lot of Kieffer pears will show some of it, as will peaches and plums. It is easily to be seen by breaking a twig. The cause probably is freezing. Fumigation is sometimes injurious. Of 250 fumigated plum trees, 50 never put out a leaf, and the rest are dead, root and branch. Of 2005, not fumigated, all but two lived and did well.

NURSERY BUSINESS IN SOUTHWEST.

John S. Kerr, Sherman, Tex., says: "The nursery business of the Southwest this year has been very satisfactory. Our trade has been unparalleled in the last two years. Nurserymen are surely feeling very comfortable from their good trade, and it looks as if the present turn of horticultural development on account of the inroads of the boll weevil upon the domain of King Cotton will continue to be very active. The season for nursery business will close here by the 20th of March."

COLONIST RATES

On Sale during March and April
Via WABASH RAILROAD

\$42.50

From Buffalo

To San Francisco, Portland, Los Angeles, Tacoma, San Diego, Seattle;
\$40.00

Spokane, Ellensburg, Wenatchee, Umatilla, Pendleton;
\$39.50

Helena, Butte, Anaconda, Missoula, Ogden, Salt Lake City, Pocatello;
\$34.00

Billings, Mont., and all intermediate points.

For full information apply to your local ticket agent or R. F. Kelley, G. A. P. D. and James Gass, N. Y. S. P. A. Wabash Railroad, 287 Main Street, Buffalo, N. Y.

A St. Louis World's Fair INFORMATION BUREAU has been established at 287 Main Street, Buffalo, N. Y., in charge of R. F. Kelley, where information will be cheerfully furnished.

Long and Short.

Williams & Sons Co., Batavia, Ill., offer shade trees and peonies. 15,000 apples may be had of West Jersey Nursery Co., Bridgeton, N. J.

Schulez Bros'. Nursery Co., Brussels, Ill., offer peach, apple and cherry at special rates.

J. G. Harrison & Sons, Berlin, Md., call attention to their announcement for nurserymen in this issue.

Look for Ward-Dickey Steel Co. advertisement for box straps; best as well as cheapest on the market.

P. J. Berekmans Co., Augusta, Ga., offer specialties for fall in fruit and ornamental stock of highest grade.

C. B. Lunnemann, nurseryman, at Boskoop, Holland, has been calling on nurserymen in the United States.

Cash for surplus stock is offered by the Indianapolis Nursery Co., Indianapolis, Ind., who conduct a commission business.

D. Baird & Son, Baird, N.J., will grow Ward blackberry root cutting plants on contract for nurserymen and dealers for fall delivery.

The Dansville Willow and Twine Looping Machine

Patented. Price \$10 F. O. B. Will exchange for first class nursery stock, F. O. B. 50 machines sold at full price at two sessions of American Association of Nurserymen. 150 machines now in use. References: Ellwanger & Barry, Chase Bros., Storrs & Harrison, R. G. Chase & Co., Brown Bros., and a hundred others now using the machines, if wanted. Weight, 6 lbs.

G. C. STONE, Nurseryman
DANSVILLE, N. Y.

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To get right to the point
we guarantee

Red Star Brand

to be of first-class quality.
A good, dependable grade.
Any that proves otherwise
we replace. Could more be
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IMPORTERS OF RED STAR RAFFIA.
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BOX STRAPS

LIGHT SHEET STEEL STRAPS.

Averaging about an inch in width. Any lengths up to 63 inches.

The best and cheapest material on the market for the purpose.
Soft, tough, strong and easily applied. A wire nail can be driven
through without previous punching. Write for Price List.

References, - - - - - GEORGE PETERS & Co., Troy, Ohio.

WARD-DICKEY STEEL COMPANY,

Manufacturers of Planished Sheet Steel.

Indiana Harbor, Ind.

EVERGREENS

The rooty, symmetrical, thrifty, home-grown, transplanted sort that will
grow again.

Colorado Blue Spruce (Picea Pungens) 8 to 36 inches
inclusive. Any color from green to silvery shiners.

Balsam Fir, 18 to 48 inches inclusive. Any number, grade or
degree of excellence.

Norway Spruce, 18 to 36 inches inclusive. The best lot we have
ever grown.

White Pine, 24 to 48 inches. A choice lot

Arborvitae (American), 24 to 48 inches, inclusive. The bushy,
rooty kind.

Arborvitae (Pyramidalis), 60 to 84 inches. A few choice big pyramids.
Send for list and let us know how many and what you need.

Address

SCOTCH GROVE NURSERY

Scotch Grove, Iowa

Pink Dogwood, 10 Ft. High
4 times transplanted. Koster's Blues Spruce
Japanese Maples **Specimens** up to ten feet,
full heads, three times transplanted.

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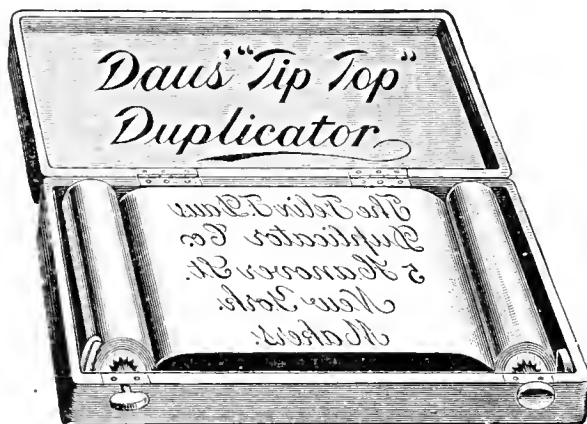
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Irvington and Boyden Avenues, South Orange N. J.

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Lebanon Springs, N. Y.

Nursery grown and selected Ornamental Trees, Shrubs, Vines, Trailers and
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AUGUSTA, GA.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"Advertising is necessary for the future success of any business firm."—Lafayette Young, Des Moines, Ia.

Vol. XII.

ROCHESTER, N. Y., MAY, 1904.

No. 5

IN THE SOUTH.

Season's Trade Not Up to Last Year's in Maryland—Orders Countermanded—Expenses Increased, Profits Reduced—Large Volume of Business in Winchester.

Berlin, Md., April 25.—J. G. Harrison & Sons: "The season's trade has been very satisfactory. We have sold out closer than for several years past in peach, apple trees and strawberry plants. Our digging and shipping of strawberry plants run as high as 150,000 per day of fresh dug plants. The weather is still keeping cool and trees are still in a suitable condition for shipping."

Snow Hill, Md., April 13.—William M. Peters' Sons: "The season's trade has not come up to last year by any means. The number of orders received will aggregate more, but it seems the planting is on a much lighter scale. One reason which may account for it is the very late spring, and the scarcity of labor, which seems to be the case in all sections. Quite a number of orders were countermanded that ran into several thousand trees by old customers, and this was their excuse. Orders are still coming in and if the season continues backward will probably continue for the next ten days. Do not think there will be much surplus stock carried over here in this section outside of peach, and possibly Keiffer pears. of peach there will be more surplus than in the last five years."

"We are doing our usual planting, some heavier on peach than last season; other stock about the same. So far as we can now see we hardly think that the present season will prove one of much if any profit to the nurserymen in our state. One reason is that expenses all along the line have been at least 20% greater than in former years, and that will surely reduce the profits. The heavy cut made in prices of peach trees, especially since January, reduced the profits to about cost of production, admitting that all are pretty well cleaned up."

"While we had a long winter and a very disagreeable one it did not get down to zero here; stock went through winter in fine shape as it stood in the nursery rows. We feel that the prospects for the coming year are favorable. Much of course depends on the present year's crops. In this state prospects for fruit were never better at this writing. Strawberry crop to begin first is very promising, and will be the heaviest ever grown on this peninsula, beyond a doubt, unless late frost kills the blossoms. The prospects for the eastern shore of Maryland and Delaware, so far as the fruit industry of all kinds with no exception is concerned, never

looked brighter for bountiful crops. With fair prices it means business for the nurseryman."

Winchester, Tenn., April 15. J. C. Hale: "The nursery business at Winchester last year was very satisfactory so far as I have been able to learn. The volume of business done by the several nurserymen located at this place far exceeded that of any previous year. I handled 4,000,000 peach trees the past season and cleaned up almost entirely on all varieties. Prices were not so good as the previous year; but, all told, the past season was very satisfactory."

"The outlook for this year's business is good. The prospect for heavy peach crops in Georgia, Arkansas, and East Texas was never better at this season of the year, and if the crop brings good prices there will be a heavy demand for peach trees again. There was about 8,000 bushels of peach seed planted in the vicinity of Winchester last fall and the seedling stand was never better. I planted 1,200 bushels of seed, have a fine stand of seedlings, hence my budding will necessarily be very heavy."

"This spring has been very backward here in Tennessee, but nursery stock is quite advanced and dormant peach buds are about 2 to 3 inches now."

Winchester, Tenn., April 11.—Southern Nursery Co.: "Planting here this spring will be considerable less than last year, especially apple and pear. About the usual amount of peach seed are planted."

"We have had a splendid winter and spring. Trade the largest we have ever had. We opened up the spring trade with a larger stock than usual. We have cleaned up pretty well on everything."

PROMINENT FRUIT GROWER ASSIGNS.

Butler M. Guthrie, grower, Mexico, Mo., made an assignment on April 5th. C. F. Clark, assignee, says every creditor will receive 100 cents on the dollar. The assets are estimated at \$160,000. Mr. Guthrie is well known in Missouri as the proprietor of the Ortiz fruit farm, Audrain county, as well as a breeder of fine dogs and cattle. He assigns all of the property and also property in Topeka, Kan., and a thousand acres of Audrain county land. The assignment was a surprise, as he was considered one of the most wealthy growers in the state.

WORLD'S FAIR FOLDER.

The Wabash Railroad has prepared an attractive folder giving full information of the World's Fair; Location of Buildings, Map of St. Louis and Ground Plan of Exposition. Write R. F. Kelley, G. A. P. D., Wabash R. R., 287 Main Street, Buffalo, N. Y.

ARTIFICIAL REFRIGERATION.

Combination Winter and Summer Storage Building for Nurserymen Illustrated and Described by Madison Cooper—Gravity Brine System—Uniform Temperatures.

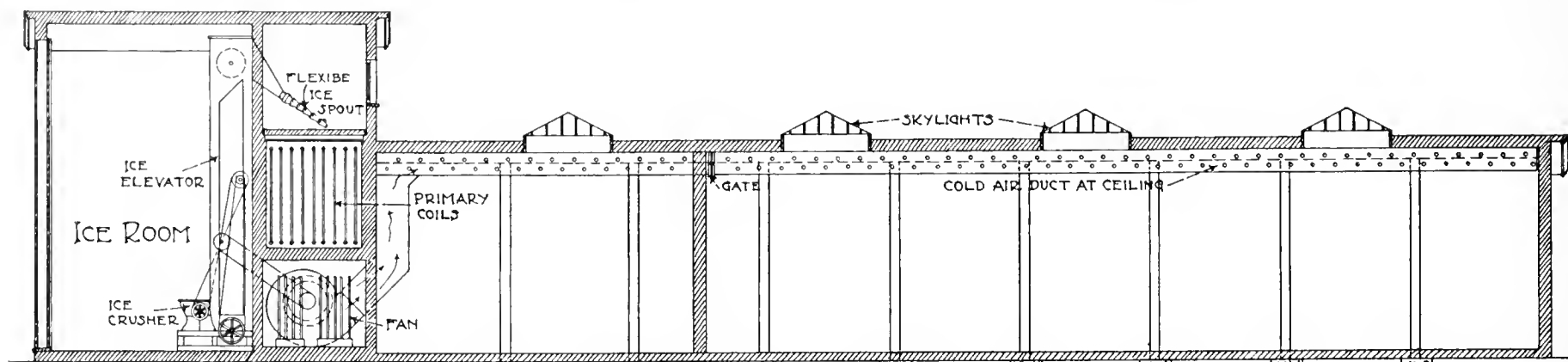
MADISON COOPER, MINNEAPOLIS.

At a temperature of 30° F. the air contains very little moisture, and in fact it cannot hold much, so the possibility of drying out nursery stock is much less when stored in a temperature of 30° F. than at 40° F. to 50° F., which many recommend. The capacity of air for moisture is a direct property of its temperature—the higher the temperature, the more moisture air will take up and hold. At 30° F. air will hold less

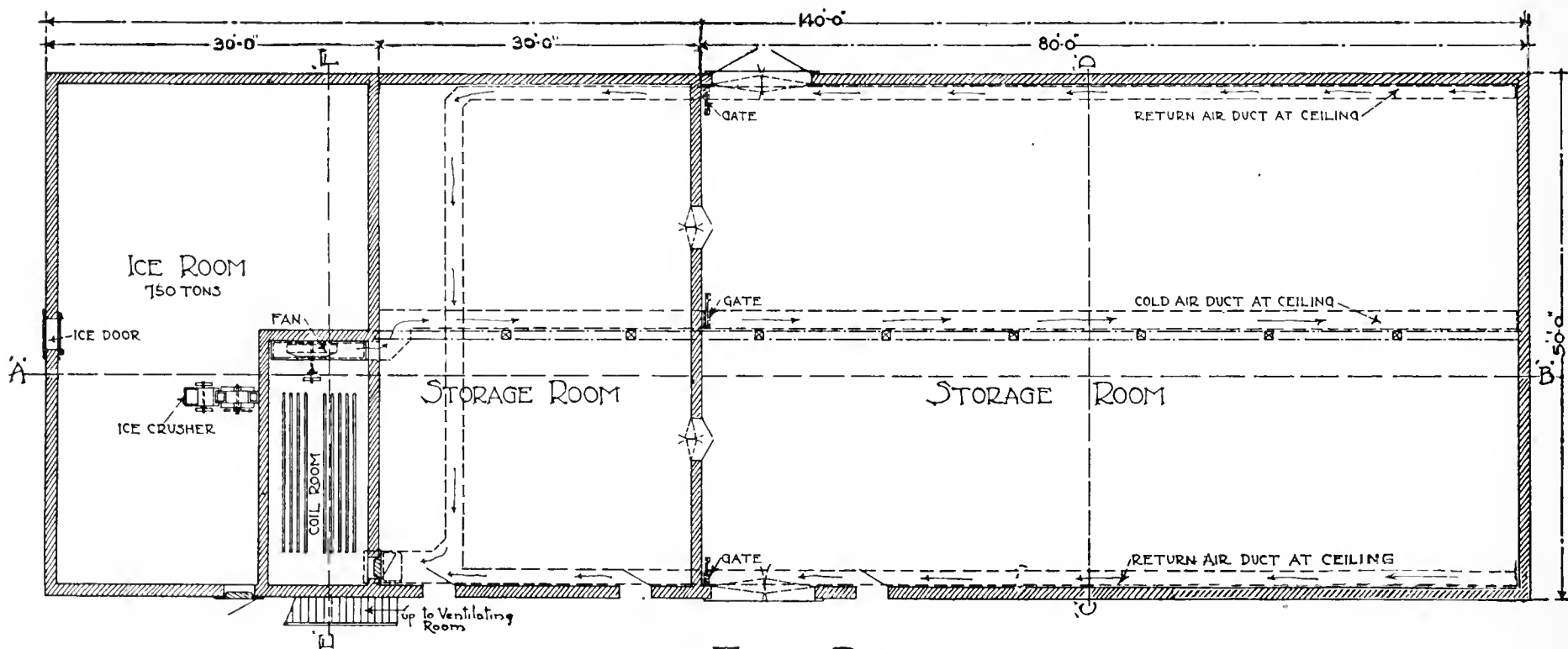
come comparatively very dry and that moisture containing products like trees will dry out very quickly. This case is stated to show the operation of this simple natural law of connection with the winter storage of nursery stock. Possibly these exact conditions might not occur in practice but they would be approximated. The great importance of maintaining uniform temperature and humidity is plainly illustrated, and the cause of the drying out of trees by fluctuating temperatures is readily seen.

TO OVERCOME DIFFICULTIES.

To overcome the difficulties of winter storing as above outlined it is proposed to apply artificial refrigeration when necessary to maintain sufficiently low temperatures. By the term artificial refrigeration it should not be understood



LONGITUDINAL SECTION A-B



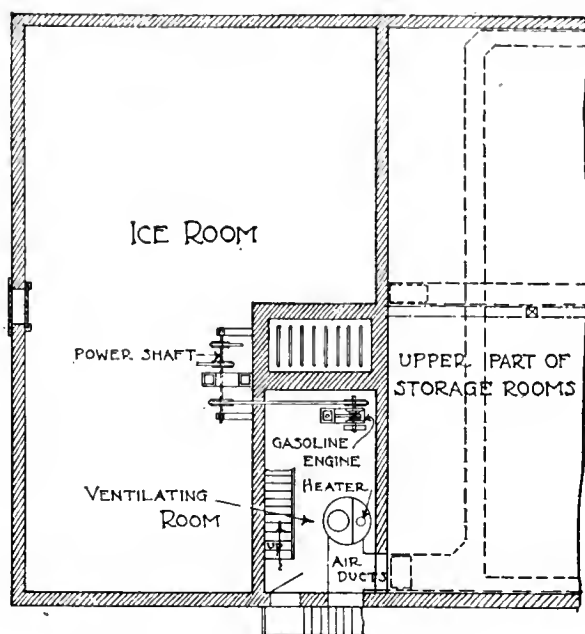
FLOOR PLAN

moisture than at any higher temperature. Air which is saturated with all the moisture it will hold at 30° F. contains 1.96 grains per cubic foot. At a temperature of 40° F.—2.85 grains per cubic foot. This shows the rapid increase in capacity for moisture as the temperature of the air is increased. Suppose we are holding our storage room for nursery stock at 30° F. and a warm spell of weather comes, one which obliges us to close tightly all openings leading to the outside air. After a few days the temperature goes up to 40° F. What is the result? The air we will say was at the 84% relative humidity at 30° F. When the temperature of the air has increased to 40°, the relative humidity would be 56%. What does this mean? Simply that the air has be-

come comparatively very dry and that moisture containing products like trees will dry out very quickly. This case is stated to show the operation of this simple natural law of connection with the winter storage of nursery stock. Possibly these exact conditions might not occur in practice but they would be approximated. The great importance of maintaining uniform temperature and humidity is plainly illustrated, and the cause of the drying out of trees by fluctuating temperatures is readily seen.

that a complicated ice machine is necessary. The term is used to express cooling effects other than those produced by outside atmospheric conditions. Such a refrigerating equipment is embodied in the Gravity Brine System illustrated herewith. The apparatus is simple and easily handled. It consists of a series of iron pipe coils connected by pipe mains. Primary or tank coils are placed in a suitable tank and secondary or cooling coils are connected by the mains so that they form a continuous circuit for circulating chloride of calcium solution or brine. The tank containing primary coils is filled with crushed ice and salt, completely surrounding the coils. The chloride of calcium brine in these coils becomes heavier because of its lower temperature and flows down into

the secondary coils, displacing the warmer and lighter brine therein, causing it to flow up into primary coils. This establishes a continuous gravity circulation which is kept up as long as the supply of ice and salt remains in the tank. By an arrangement of air ducts the air of the storage room is forced by means of a fan driven by gasoline engine, or any

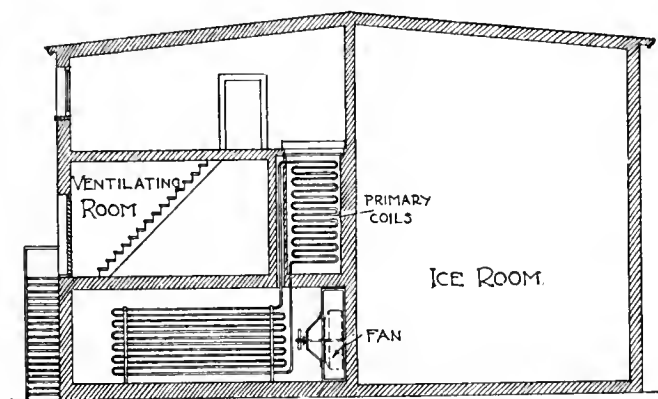


PLAN OF VENTILATING ROOM
ABOVE COIL ROOM.

suitable power, to pass over the secondary coils of the Gravity Brine System. The fan is only operated at times when cooling or heating is required.

COMBINATION STORAGE BUILDING.

The illustrations show a combination winter and summer storage building constructed wholly above ground. The storage space is divided by a partition into two rooms, one small room 30 x 50 feet and one larger room 50 x 80 feet. These rooms are both cooled from one battery of pipe coils, but the air ducts are provided with gates so that the entire refrigerating effort may be applied to the smaller room. The refrigerating equipment is of sufficient capacity to maintain a temperature of 30° F. in the small room during midsummer, and to maintain the same temperature in both rooms during comparatively cold weather, say from November 1st. Both rooms may be used for winter storage, and during the



TRANSVERSE SECTION-E-F

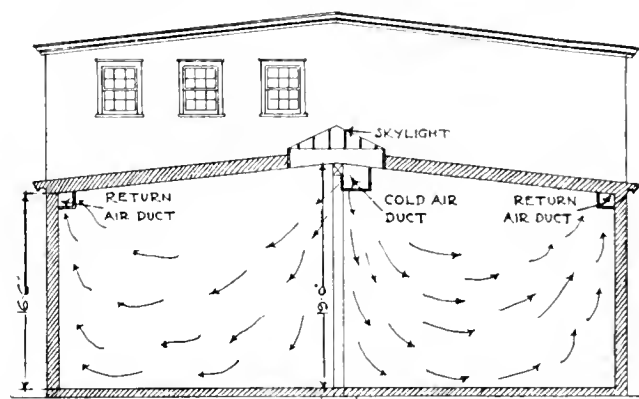
summer the large room may be shut off and only the small room used. If it is not desired to store nursery stock during the summer, other goods may be taken for storage if they are to be had, or the plant may be shut down during the summer. No expense whatever is necessary when the plant is not in operation.

The main part of the storage building, 50 x 110 feet, is essentially like many storage cellars of houses now in use, consisting of as plain and as cheap a building as can be built, and roughly insulated. At one end of the storage building

is the ice room, which also contains the complete refrigerating and mechanical equipment. The ice room is 50 x 25 feet on the ground, 30 feet high inside and will hold about 750 tons of ice which is more than sufficient to maintain the temperature as above stated during the year. The room containing the secondary coils of the Gravity Brine System is located on the ground. Above this room are located the tanks containing the primary coils and the ventilating room containing the heater for use during extremely cold weather and at such times as it is necessary to warm or dry the storage rooms. The gasoline engine or other power used for driving the fan for circulating the air through the storage room and for ventilating, is also located in the room above the tank and ventilating room, where access is had to top of tank for filling with ice. On this floor is also provided storage bins for salt. In houses the size of the one here illustrated, or larger, an ice crushing machine and ice elevator as shown are desirable, especially as the power is at hand for operating same. In smaller plants this may be dispensed with.

OPERATION OF THE PLANT.

The operation of the plant is as follows:—Ice is fed to the ice crusher, which reduces it to about the size of hen's eggs; from the crusher the ice drops into a bucket elevator, which lifts it up above the tank containing the primary coils and drops it into the tank through a flexible spout. It will be



TRANSVERSE SECTION-C-D

noted that very little labor is necessary with this arrangement. As the ice falls into a tank a small amount of salt is sprinkled in. This produces a low temperature in the tank which cools the chloride of calcium brine in primary coils and causes a circulation as already described. The actual cooling of the storage rooms is accomplished by drawing the air in through small ducts on the sides of the rooms by means of the fan and causing it to pass over the secondary coils of the Gravity Brine System in coil room, where it is cooled; then forcing it from fan into large duct in center where it is evenly distributed to the rooms. When necessary to heat the storage rooms, the return air to coil room is caused to circulate over the large, jacketed heater in ventilating room, or fresh air for ventilation may be drawn over heater for ventilating and heating at the same time. When weather conditions are right, a large volume of air from the outside may be forced into the storage rooms for the purpose of cooling the rooms. Many times greater cooling results may be secured in this way than by the opening of doors and windows, and the cold air is evenly distributed to the rooms so that no freezing or harm can result, as is possible to goods near open windows or doors on frosty nights.

The estimated cost of complete apparatus aside from the

buildings, for a house the size shown completely erected in place is from \$2,200 to \$2,500.

UNIFORM TEMPERATURES.

The apparatus described will maintain uniformly low temperatures at about the freezing point in the entire building during the cold weather when most of the nurserymen's products are stored, and in one-fourth of the house during the summer. The initial cost of the apparatus is not excessive, the cost of operation almost nominal and the results to be obtained positive. Only a moderate amount of refrigeration is required in storing nursery products, but when required, it is very important, and the cost is so small that it will soon pay for itself in saving of loss and perfection of results possible to obtain. In many cases the nurseryman is a fruit grower as well, and cold storage would be a good auxiliary to add for the purpose of taking care of the softer fruits temporarily and the hardy fruits for a longer term of storage.

\$6,000 FREIGHT ON NURSERY STOCK.

Suzuki & Iida had to pay freight and duty of nearly \$6,000 on one big shipment of nursery stock received by overland route from Japan last week, says American Florist. The goods were Japanese maples, wistarias, sciadopitys and a variety of evergreens and Mr. Suzuki thinks this one of the largest invoices in its class ever coming to New York.

IN CANADA.

Toronto, Ont., April 12.—Pelham Nursery Co.: "Business for this spring delivery has been fair. Our surplus this year is small, owing to our not having had a very heavy stock for this season's sales. The exceptionally severe weather of this past winter hurt business. We will have a heavy list of stock to offer for the new season, and our planting this year will be larger than ever."

AMERICAN NURSERIES COMPANY.

The Jonesboro, Ark., Nursery and Plantation Company has been changed to the American Nurseries Company and the capital stock has been increased from \$2,500 to \$10,000. The officers are: W. J. Hughes, president; J. B. Gregg, treasurer; I. O. Hughes, vice-president; C. M. Galeener, secretary and general manager; J. H. Hawthorne, counsel. The following are stockholders: J. B. Harper, Nashville, Tenn.; J. Feldwisch, St. Louis, Mo.; W. J. Hughes, St. Louis, Mo.; C. M. Galeener, Jonesboro, Ark.; W. B. Teters, Corning, Ark.; I. O. Hughes, Jonesboro, Ark.; J. H. Hawthorne, Jonesboro, Ark.; L. B. Ligon, Kennett, Mo.; J. B. Gregg, Jonesboro, Ark.; J. H. Gant, Jonesboro, Ark.; M. I. Hughes, Jonesboro, Ark.; B. O. Hughes, Jonesboro, Ark.; P. S. Hudspeth, Luxora, Ark.; T. E. Baldwin, Kennett, Mo.; Chas. E. Petrie, Poplar Bluff, Mo.; C. B. Gregg, Jonesboro, Ark.; B. J. Harrison, Lake City, Ark.; J. C. Harrison, Lake City, Ark.; J. G. Sudbury, Blythesville, Ark.; C. H. French, Cape Girardeau, Mo.; A. A. Keller, Jonesboro, Ark.; J. W. Ligon, Kennett, Mo.; C. B. Poland, Jonesboro, Ark.; H. H. Houghton, Jonesboro, Ark.

Three hundred and twenty acres of land have been added to the nursery, and a greenhouse will soon be constructed in Jonesboro for the growing of plants and flowers for the retail trade.

Among Growers and Dealers.

James Mott, Miami, Fla., died on April 13th.

Mark S. Stone, San Jose, Cal., died recently aged 39 years.

There has been an unusual demand for nursery stock in British Columbia.

Four earloads of trees from Oregon recently entered the Okanagan district of British Columbia.

Barnes Brothers' Nursery Company, of Wallingford, Conn., has been incorporated with a capital stock of \$15,000.

It is estimated that 250,000 trees were planted this spring in the Yakima, Wash., valley. Last year 150,000 trees were planted there.

A. J. Baumhoefener and Hugh Williams have purchased the interests of Hugh Harrington and W. P. McFann in the Williamsburg, Iowa, nursery.

John Porterfield has severed his connection with Puckett's department store Traer, Ia., and will give his entire attention to the nursery business.

Thornton Stark, has charge of the branch nursery establishment of Stark Brothers of Louisiana, Mo., at Portland, N. Y. He reports a good business.

The Aurora Nursery Company, Aurora, Ill., has been incorporated with a capital of \$5,000. The incorporators are J. K. Newhall, J. A. Young and F. C. Grometer.

It is said that Yakima County, Wash., will plant nearly half a million trees this year. Last year there were set out 267,000 trees and the orchards already cover 15,000 acres.

The Cottage Gardens Company, Queens, N. Y., has been incorporated; capital, \$60,000. Directors: C. W. Ward, Wilhelmina S. Ward, and J. C. Gowing, of Queens Borough.

The Barnes Brothers Nursery company, of Wallingford, Conn., has been incorporated at Hartford, capital \$15,000. The incorporators are J. Norris Barnes, John R. Barnes and Albert Van Leuvan.

The Chicago Tree Planting society was organized April 13th with the following officers: President, O. C. Simonds; vice-president, Edwin A. Kanst; secretary, George E. Hooker; treasurer, L. V. LeMoynes.

D. Hill, Dundee, Ill., will arrange for the bureau of plant industry, a model farm with fifty groves made up of trees of different varieties from all parts of the country. More than \$1,000 will be expended on the display.

Prof. Carl Sehumann, curator of the Royal Botanical Museum, Berlin, Germany, is dead. With the exception of the aged Sir Joseph Dalton Hooker, no one probably had so comprehensive knowledge of flowering plants as had he.

C. W. Ward, of Queens, N. Y., reports that he has disposed of a half interest in his new red seedling carnation No. 303, which scored 92 points at the Detroit convention, to the J. D. Thompson Carnation Company, of Joliet, Ill., for a consideration of \$10,000.

A report from Glenwood, Col., says that John F. Spencer, a nurseryman of Grand Junction, has, after seven years' work, produced a seedless apple. The new fruit resembles the seedless orange in that the meat is solid and there is a slightly hard substance in the navel end. The trees have no blossoms.

County Fruit Inspector Beck reports that for the month of March 165,000 fruit trees were received by farmers and orchardists in the Yakima valley. Of this number 15,000 were received at Kennewick. Mr. Beck says that when the time for planting is past this spring the total, counting those received last fall, will foot up 400,000. Every district in the valley got a share of these trees.

Nurseries in Connecticut have somewhat increased in acreage during the year and probably now have a total area of about 500 acres. There is a decided tendency among the smaller nurserymen to keep on hand a larger stock of those trees and shrubs not attacked by the scale and to buy each year from the large nurseries, as needed, their fruit trees and other stock that is especially liable to infestation.

IN THE EAST.

Some Damage to Nursery Stock By Cold Weather—Heavy Sales at Geneva Notwithstanding—Late Spring in New York State Retarded Shipping—At Rochester.

Geneva, N. Y., April 20.—Nurserymen at this point report that peaches, sweet cherries and European plums are damaged by the weather about 50 per cent.; there has also been considerable damage by field mice. It is estimated that the Geneva nurseries will ship this year about 4,500,000 trees representing an aggregate of nearly half a million dollars in business.

Rochester, N. Y., April 9.—Brown Brothers Co.: "Trade has been quite satisfactory with us, although we have not sold as much as we would have done had the winter been less severe. We expect to make our usual plantings this spring, and feel that the future looks bright."

Rochester, N. Y., April 14.—H. S. Taylor & Co.: "Owing to the weather conditions during the past season, we have felt the effect in our retail trade; on account of the severe weather it has been impossible for our salesmen to get about, and in consequence, sales have shown a decided falling off."

"As regards the wholesale trade, it looks as if there was going to be a pretty good clean up in most every line of stock this spring. The prospects for the coming season, we think, were never better, and we are planning to plant out a large amount of a general line of fruit and ornamentals."

"On the whole, we have been fairly well pleased with the past season's business, and look for much better business during the coming summer."

Rochester, N. Y., April 19.—John Charlton & Sons: "Owing to the severe winter, we did not anticipate as large a business as usual this spring. It has, however, exceeded our expectations, and the result is a very good business has been done. We think, so far, that the spring's sales, will rank with the average spring sales of the past few years."

"There has been, however, more surplus stock offered this spring than usual; which it seems is being worked off quite satisfactorily. Prices have been well maintained, and we think that the trade in all its branches has been remunerative. This spring's weather has been very disagreeable, and unfavorable for early packing, with frost and snow up to this 19th day of April 1904."

Dansville, N. Y., April 20.—James M. Kennedy: "At the present time nurserymen are busy digging and shipping, all of the wholesale orders have been shipped, and our retail packers are doing more than their usual business. Prices have ruled high and the nurserymen have had a prosperous year. Plantings will be about the same as they have been for the past three years. Some stock has already been planted, but a greater portion is still in the cellar owing to the lateness of the season. We have had a long, severe

winter, and early in the season it was thought a great deal of damage had been done by the extreme cold, but now that the frost is out of the ground and a more thorough and complete examination is possible we find the damage so much lighter than was anticipated that we can congratulate ourselves."

"It is generally understood that collections have been above the average and the nurserymen in Dansville will have about the same amount of stock to offer this season as usual."

"Never in the history of the trade was their so little surplus as Dansville had to offer this spring. A greater portion of the stock was shipped last fall and the bulk of the stock that was carried over for spring trade was in the storage which has enabled the shippers to get their stock to their customers on time and in good condition."

PIONEER NURSERIES COMPANY.

The Pioneer Nurseries Company, Salt Lake City, Utah., is one of the oldest and best known of the western nursery concerns. It was established in 1850 and incorporated in 1893. Its directors are: Sidney Tuttle, George J. Foster, W. E. Rossney, M. E. Callahan, and John Watson. The accompanying photo-engraving is that of the secretary of the company, John Watson, who was born at Brenham, Tex., 33 years ago. His father, William Watson, established the Rosedale Nurseries in Texas in 1859. John Watson was thus raised in the nursery business, becoming thoroughly familiar with its details, outside and inside. He was educated in the local public schools and graduated from the University of Texas in 1891; he studied law, but the force of heredity and environment was too strong to overcome, so he became associated with his father in the nursery business. After the death of the father, the business was continued by



JOHN WATSON
Salt Lake City, Utah.

the brother of John Watson and the latter branched out for himself. He was associated with the Phoenix Nursery Company, at Bloomington, Ill., as a member of their office staff. Then he decided to take the advice of the late Horace Greeley and go west, two years ago.

Mr. Watson is now a director and secretary of the Pioneer Nursery Company, which has 200 acres devoted to nursery purposes, growing largely for the wholesale trade, a considerable portion of the output going to eastern firms. They grow pears equal to Western New York, better apples than Kansas, and seedlings up to those of Topeka. They are also fruit growers, having quite a fruit farm at Provo, forty miles south of Salt Lake City.

Secretary Watson has interests in Texas which is his home, although he spends but a portion of each year there. Besides his nursery interests he is a director in the King Standard Oil company, a half-million dollar corporation owning 8,000 acres of land in the Farmington oil fields in Utah. He is a member of the various trade organizations, and is vice-president for Utah of the American Association of Nurserymen.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., MAY, 1904.

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STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, F. H. Stannard, Ottawa, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.

SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.

SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

PREPARING FOR ATLANTA.

Members of the American Association of Nurserymen are preparing to attend the annual convention of the Association in Atlanta, June 22-24th. The programme committee is at work and an interesting discussion of practical topics is promised. Much will depend upon the willingness of the members to assist the committee in this matter. The southern nurserymen are endeavoring to insure a large attendance of these in the South to greet their northern brethren. Most of the latter will go from the east via Rochester and Washington, on Northern Central and Southern Railways. Side trips before and after the convention are planned by some of the nurserymen.

NURSERY INSURANCE IMPORTANT.

E. Albertson, Bridgeport, Ind., writes: "In regard to the returns from our circular letter with questions relative to insurance on storage buildings, it seems that many nurserymen have not taken the interest in this that we had expected or hoped they would, and so far out of about three hundred letters we have sent out we have only had about 120 replies. Possibly some of them may have overlooked it. Of course, the larger number of replies we can get the better basis it gives us on which to base calculations for business. And the time is getting short now in which to get things in shape for the convention, as this must be done in connection with the wind-up of the spring work and opening up of the summer business."

It would seem that the progressive nurserymen of the American Association would turn in and assist the committee in every way possible in order to bring the matter intelligently before the convention. Mr. Albertson would be glad to receive suggestions, pro and con.

THE SEASON'S TRADE.

We present in this issue reports from leading nurserymen on the nursery trade for the season. Varying conditions are noted. In the West the weather was favorable for handling and shipping stock, with rains to put the ground in good condition. In the East and especially in Western New York, frost and snow until late in April prevented work to advantage on the packing grounds. A very late spring there threw all calculations off. A large volume of business is reported from Winchester, Tenn.; also from Geneva, N. Y. The season's trade was not up to last year's in Maryland. What appeared to be a considerable surplus was afterward much reduced and the light canvass during the severe winter augured well for a good summer business.

Stark Brothers report a satisfactory shipping season, with trade considerably above the average. Again this well known firm argues that the word "surplus" should be eliminated from the nurseryman's vocabulary. Too many have learned to await surplus lists, as the average shopper awaits the bargain day at the department store. This firm believes the prospects generally are favorable and they anticipate a splendid fall trade. They regard the future as encouraging to those who work along reasonable, sensible and legitimate nursery lines.

IN THE WEST.

Season a Good One and Well Sold Out—Trade Conditions as a Whole Satisfactory—Stark Brothers Making Their Usual Planting—At Other Points.

Ottawa, Kans., April 12.—F. H. Stannard & Co.: "The season has been a good one with us and we are sold out closer than we have been before in several years. The weather has been extremely favorable for handling and shipping and the recent rains have put the country in splendid condition; the young stock has wintered well and the conditions are favorable for the early planting. We have been too busy to know what our neighbors are doing, but our plant will be about the same as usual."

Lawrence, Kan., April 4.—A. C. Griesa: "Deliveries pretty much over and planting will be done in ten days more if weather is favorable. Apricots in bloom."

New Haven, Mo., April 11.—New Haven Nurseries: "The season has been late here and very little planting done except what was done early in March. Too much rain the last few weeks."

"There has been some shortage on some varieties of apple, cherry, pear and plum. In fact, the larger grades of plum, cherry and pear are sold close. The surplus in apple is largely in Ben Davis and a few other winter sorts. In peach the surplus seems to be mostly in lighter grades."

"We believe that the planting throughout this section will probably be less than last year. The prospects for a good fall trade at present seem bright, as we shall have a fair peach crop in some sections of the state and so far as we can learn prospects for full crop in other tree fruits was never better."

Louisiana, Mo., April 15.—Stark Bros. Nurseries and Orchards Co.: "We beg to report one of the smoothest and most satisfactory packing and shipping seasons in our history. Trade considerably above the average, this perhaps from the fact that we have made a stronger drive, increased selling force, etc. Season has been most favorable. We have been up to date with our shipping for some days and on the windup believe all marketable stock will be sold close enough."

"A few have reported trade not up to the average, and some wholesalers are complaining that a great many of the retailers, formerly their customers, are now their competitors in the way of offering considerable surplus stock. Nurserymen should make it their business to eliminate from their vocabulary that word "surplus." Too many have learned to await surplus lists as the average shopper awaits the bargain day of the department store."

"We have found trade conditions throughout the country as a whole to be normal and satisfactory. Some localities have suffered from too much winter, others too much moisture, others again too little. Some of these misfortunes, however, may prove to be blessings in disguise."

"We are making our usual plants here at Louisiana and Starkdale, Mo., increasing largely on apple seedlings from Vermont seed at our branch at Atlantic, Ia.; grape vines, gooseberry, currant, Norway maple, small fruit plants etc. at Portland, N. Y.; about our usual plant of fruit trees at

Dansville, N. Y.; considerable increase at Fayetteville, Ark., branch, grafts, seedlings, etc., planted every month during the winter. Stock there already cultivated several times and making a promising start. Our aim and plan being to take advantage of favorable soils, climate, etc., thereby dividing the risk rather than carrying all eggs in one basket."

"We believe the prospects generally are favorable and anticipate a splendid fall trade. In short, regard the future as encouraging to those working along reasonable, sensible and legitimate nursery lines."

North Topeka, Kan., April 13.—Peters & Skinner: "Trade this season has with us been fairly good. It started out a little slow, but the spring has been favorable for a late trade. We find no more surplus at this time of the year than usual. Orders are probably smaller than usual this year, but there are more of them."

"As to the amount of stock to be planted this spring, we think there will be less apple seed and fewer apple grafts and Mahaleb stocks planted than for several years. Have had a cool spring, but weather has been good most of the time and planting is well along."

Beatrice, Neb., April 13.—J. A. Gage: "Our principal spring business is the retail catalogue trade. This was cut short quite a little on our early orders by the unusual drought in Western Kansas and Oklahoma. The later northern trade has been beyond our expectation, much better than last season. The continued cold weather has been a very material help to nurserymen, by extending the season of delivery."

"We believe stock generally will be closed out much closer than last season. Quite a surplus of apple and the price low. We believe, however, the trade generally has been very satisfactory this season."

"Planting will be quite a little lighter than usual owing to the advanced price of labor and scarcity of fruit stocks, and nurserymen feel that they must sell out close and get a good price for what they grow and believe this will have a good effect on future business. Owing to the shortness of the crop of apple seed, there will not be over one-half the amount planted that there would otherwise have been; probably will be better for all concerned. Orders still coming in freely."

Yankton, S. D., April 20.—George H. Whiting: "Trade prospects with me this season are fully up to the average, if not a little ahead, although our season is quite cold and backward, and the number of orders to this date I think is a little behind that of last year; but considering the season, I think our business will be much better than last year. The weather is unusually cold for this season of the year. A little snow fell last night. There is a decided shortage in forest seedlings and currants this season, with about the usual supply of fruit trees, plums, apples, cherries, etc. My planting for this season will be in excess of any past season. Perhaps one-fourth more than any previous season."

E. F. Edmonson, Perry, Ia., has opened a branch office at Cleveland, Okla., under the charge of W. C. Dugan.

Irving Ingels of the Home Nursery, Lafayette, Ill., married recently Miss Rose Garner, at the home of the bride's sister in Stillwater, Okla.

Dr. L. Wittmack, editor of *Gartenflora*, Germany, and secretary-general of the Royal Horticultural Society of Prussia, is in St. Louis, arranging for the German agricultural section at the World's Fair.

CENTRAL STATES.

What Appeared to Be Considerable Surplus Was Pretty Well Cleaned Up—Light Canvass During the Winter Should Leave Good Field for Summer Business.

Bridgeport, Ind., April 9.—Albertson & Hobbs: "It is hard at this time to give anything like an accurate report on business. This has been a very peculiar season, our shipping season opening up or beginning about the 25th of February from storage, and by the 10th of March from the field, and we have been shipping right along, but the northern trade has held back late and much of it is just now coming in. What it will amount to is hard to tell, having been busy and not had a chance to post or balance up to get much idea how or what the season's business is going to show up.

"We started in with a general line of stock and while there are some items pretty strong in surplus, yet we will not have near as large a surplus as we had last year and if trade keeps up for ten days or two weeks, it looks like stock would be reduced very satisfactorily and we hope the balance the first of June will show a very satisfactory year's business. Owing to a light canvass this winter we certainly will look for a good summer's business. As to planting our own plantings, they will be about the same as they have been for three or four years, not quite so heavy in cherries, but about the same in other stock. As to the planting in the state we have very little idea what that will amount to. From the meager report so far from damage in winter fruits, we do not think there will be as large a supply of stock on hands for fall as there was last year and think, taking it altogether, the nurserymen have a very good prospect ahead for a good business."

Phoneton, O., April 9.—The Albaugh Nursery and Orchard Co.: "The spring trade started slow, on account of the backward and cool weather, but the last few days, orders are coming more rapidly. There may be a few apple trees of $\frac{5}{8}$ size, and some second size peach trees left on hand. Cherries of all sizes are picked up closely.

"The spring plant will likely be short on cherry, stocks being scarce and high. On apple and peach about the usual amount. Not nearly so many small growers in business as formerly."

Charles City, Ia., April 9.—Sherman Nursery Co.: "Trade has been very good with us this season. In fact we do not think that we have ever been more closely sold out at this season of the year than we are at the present. Retail trade has been good and we have had all the wholesale trade we cared to handle under existing circumstances. The spring is opening up very late this year.

"We can see no reason why the prospect for trade is not good for the next year if crop conditions are fairly favorable."

Kalamazoo, Mich., April 13.—Central Michigan Nursery: "We are closing the season's business with a satisfactory increase of trade over the previous year, in all departments. The severity of the winter during January and February had its bad effects on the agents, but we were far ahead of last year when the cold wave came and have made sufficient gains

during the past thirty days to enable us to finish the season with a nice increase of agency business.

"Our wholesale trade pretty well cleaned up our surplus, the demand for apple and small fruits being especially strong during the past month.

"We see no reason why trade should not be good the coming season and believe that first-class stock in the hands of reliable nurserymen will find a ready market at fair prices. Our large blocks of peach budded last summer show evidence of being in prime condition and barring the elements we will have an especially fine lot of peach to offer for late fall delivery. We look upon these as being excellent property, and also regard our blocks of budded apple with equal favor.

"To sum the situation up we might say we are satisfied with the past year's business, and our opinion is that the year to come will be a good one from both the grower's and retailer's standpoint."

Vincennes, Ind., April 18.—W. C. Reed: "We have had a fair trade this spring although not quite up to last season and hardly what we had expected, but have very little surplus except in the off varieties in apple and the two lighter grades in peach and two or three varieties in pear such as Garber and Wilder. With the above exceptions stock has been cleaned up very well, especially in the heavy grades, and the lighter grades in two year will carry over well for fall. Small fruits, shade trees and roses are cleaned up very close. Prices on cherry and plum have held very firm, but apple and peach have not been as satisfactory as we had hoped for. I think the high waters and cold winter have hurt trade considerable, but the brush piles will not be quite as large as last year.

"As to this season's planting, we are not planting as heavy on apple, but are making our usual plant on cherry, having increased on pear, plum, ornamentals and roses, so that our total plant is about the same. However, the planting through the southern part of the state has been much lighter than usual; perhaps not over 50%, largely owing to the increased price of seedlings for grafting and budding.

"The supply of stock for fall will be about the same as it has been for the last two years. Stock came through the winter in fine condition and buds are showing up well. Weather has been very cool and very favorable for planting, which we expect to finish in a day or two. Agents seem to think there is good prospect for a good season and are booking quite a number of orders already and with the prospects for a heavy apple crop see no reason why we should not have a splendid trade, unless there are late frosts that injure the fruit crop yet.

Shenandoah, Ia., April 19.—E. S. Welch: "We have had an excellent trade with favorable weather conditions for handling stock; have been very busy since the first of March with our spring shipments, fortunately were well organized and with our improved facilities, side track, electric lighted buildings, etc., have been able to get all shipments off promptly. Will clean up on most lines closer than we did last spring.

"Our principal surplus will be in small grade fruit trees. Trade on ornamentals, roses and this class of stock continues to increase and is larger with us this spring than last, although last spring we had the largest trade on ornamental stock

In Common Council

WHOLESALE VS. RETAIL PRICES.

Editor NATIONAL NURSERYMAN:—

In the April Number of the NATIONAL NURSERYMAN there is a very interesting letter from E. W. Carbary on this subject. We have had the same experience for the past two years that the writer complains of, viz: that certain wholesale nurseries send the very same prices out to planters indiscriminately that they send to us. We have had customers bring their price list along to show us how cheap they could buy trees at wholesale. We can go farther than Mr. Carbary and say that trees were shipped here by the car load, and advertised to sell at wholesale prices to planters, using the name of the nursery sending them in the advertisement. We believe such practice to be illegitimate, and unwise in the end. On the other side we get some letters from wholesale men that read like this. "Sometimes through mistake we send a list to a man that is not entitled to it, if you know of any such, you will confer a favor by reporting the fact to us." It is needless to say which of the two kinds we deal with. "Should nurserymen buy of nurserymen who send their wholesale lists to planters" is a very pertinent question. While we do not favor any "boycotting scheme," we think if every retail nurseryman and dealer had a complete list of firms doing such business, that the evil would correct itself very quickly. We think such nurseries would be safe in reducing their planting 50% the first year. Good orchard men usually prefer to see the trees before investing money in them, and are usually willing to pay a fair price for good stock, and know that the reputation of the home nursery is at stake, when they buy trees from the proprietor. If a wholesale grocer should sell a few bills to consumers, all the retail grocers would quit him at once. We all understand that, and we see no reason why the same rule should not apply in the nursery business.

Gainesville, Texas.

A. S. BASSETT & SON.

A TEST NURSERY CASE.

Editor NATIONAL NURSERYMAN:

In the spring of 1902 a nurseryman of Des Moines, Ia., whom we will call Brown sold a bill of nursery stock amounting to about \$100 to a man of Des Moines, Ia., whom we will call Smith. Smith represented to Brown that he wanted the trees to go on a small place owned, as he said, by himself, but which Brown lately found out was owned by his widowed mother with whom Smith was living, and the trees were delivered by Brown to that place and were placed in charge of the mother who managed it, she accepting the goods without protest.

Smith promised to pay for the goods in installments, but after a number of payments had been made, got into bad habits, lost his position and was unable to pay further. Brown made continuous effort to collect, but failed to get anything more than promises and finally filed a mechanic's lien against the property, which was in the name of Mrs. Smith, the

widowed mother and which place was her homestead exempt from ordinary executions. Suit for foreclosure was brought and the Smiths came into court, Mrs. Smith swearing that she had bought the trees from her son and paid him cash for them and disclaiming any bargain whatever with Brown. She swore that her son was not her agent, but legally had been only a boarder at her house, and that he had paid board to her since he was 14 years old. She also swore that a large part of the stock had not been planted on her place at all, but had been sold to another party and that the cash had been paid in that case also. She admitted, however, that the goods had all been delivered together on her grounds.

The defense was that the man Smith was the only party involved in the contract and that Mrs. Smith should be held harmless, Smith of course being judgment proof. The defense also held that nursery stock was not a proper subject for a mechanic's lien and did not come under the meaning of the statutes. The plaintiff claimed that nursery stock was a valuable and permanent improvement and as such could be collected for under the law.

The court held with the plaintiff on every moment and judgment for the full amount was rendered accordingly. The court held that the fact that the defense, Mrs. Smith, had allowed the stock to come on her land without protest, knowing that Brown expected the trees to be planted there, rendered her liable for the payment of the bill and she accordingly paid the claim.

This is a decision of importance to nurserymen, as the point had never before been raised in Iowa and we presume that in many other states the decision has never yet been had. The defense in this case expressed themselves as satisfied with the judgment and did not appeal.

This case covers some points in agency which are also valuable and shows that the mechanic's lien law is an immense help to nurserymen on collections where an attempt is made to beat an honest debt as is many times met with by all nurserymen.

"A law which deprives one class of the community of a part of their property, in order to bestow it upon another class, is an intolerable violation of national justice," and too, "If a person forcibly takes away a part of his property from another person, without any equivalent, it is simple robbery," says History of Economics.

Des Moines, Ia.

S. H. LINTON.

FREE DISTRIBUTION OF TREES.

At the city nurseries, Dorehester, Mass., says an exchange, the free distribution of shade trees has begun. Most of those who had previously made application for trees had them delivered to the expressmen of their respective districts; but there were many persons, some of them quite young, others very old, who appeared in person to get trees. Not only were they eager to get one or more, but many even purchased loam in which to plant their trees. Those in greatest demand were the Rock and Norway maples. The three other varieties that were given away were the elm, the ash and the poplar. There have been many applicants for the purple beech, but this variety is not included in the free distribution.

A. L. LIMMERMAN, Weatherby, Mo.—"I enclose \$1 for subscription for NATIONAL NURSERYMAN. Must have it. Can't tell what's going on among the tree men of the country without it."

in our history. Have not had time to figure up and compare the volume of business with last year's, but think it will be as large, as we were ahead early in the spring.

"Prices have not averaged quite as good on the whole as last year, as competition has been sharp and buyers were late in placing orders.

"We are making an average plant in fruit trees, but increasing on ornamental stock, roses, etc., in order to keep up with the growing demand.

FOR ATLANTA CONVENTION.

CHEAP RATES AND THROUGH SLEEPERS VIA SOUTHERN RAILWAY.

Nurserymen and their friends going to Atlanta, Ga., to attend the National Convention in June are advised that specially reduced rates will be arranged for this occasion by the railroads interested. Through sleeping cars will be operated from Rochester via the Northern Central to Washington, D. C., thence via the Southern Railway to Atlanta.

For those delegates who come from Ohio, Indiana, Illinois, etc., through sleeping cars will be operated from Cincinnati via the Queen & Crescent Route through Chattanooga, thence Southern Railway. Persons desiring berths in these cars should communicate promptly with Mr. C. L. Yates, Business Manager, at Rochester, or with representatives of the Queen & Crescent Route at Cincinnati, or with L. S. Brown, General Agent, Southern Railway, Washington, D. C., C. L. Hopkins, D. P. A., Southern Railway, Philadelphia, A. S. Thwatt, Eastern Passenger Agent, Southern Railway, 271 and 1185 Broadway, New York, and full information will be furnished.

AMERICAN POMOLOGICAL REPORT.

The secretary of this national society of fruit-growers and students of horticulture, announces that the report of the proceedings of the Boston convention has just come from the press and is ready for distribution. This report contains an unusually large amount of valuable matter, including as it does, the addresses of noted scientists and pomologists. Important changes appear in the amended code of nomenclature. For the first time, the pomological history of the middle states is written up; the chapter on ideals in pomology is full of suggestions; the cold storage of fruits is thoroughly discussed. There is also to be found an important contribution on the judging of fruits by the score-card method. Originators of new fruits should acquaint themselves with the method of *ad interim* awards recently adopted by the society whereby the grower can enter a new fruit for a Wilder silver medal at any time of the year. The biennial fee is two dollars; life fee, twenty dollars, payable to Treasurer L. R. Taft, Agricultural College, Mich., or Secretary John Craig, Cornell University, Ithaca, N. Y.

Long and Short.

The P. J. Berckmans Co., Augusta, Ga., offer specialties for fall in which many nurserymen will be interested.

The entire nursery plant of the Ortiz Fruit Farm, Mexico, Mo., is offered for sale by C. F. Clark, assignee, Mexico, Mo.

Clean, sharp and lasting carbon papers and typewriter ribbons are offered by the Stationery Supply Co., Rochester, N. Y.

Roses are a specialty with the Jackson & Perkins Co., Newark, N. Y. They have an attractive announcement in another column of this issue.

Fruit and ornamental stock in carload or smaller lots is offered by Albertson & Hobbs, Bridgeport, Ind. Also spades, excelsior and box straps. Special prices on early orders.

E. G. Mendenhall, Kinmundy, Ill., is general agent for the smoothing and leveling harrow for nurserymen's use. It is made in two sizes: one horse, six feet; two horse, eight feet.

John Fraser, Huntsville, Ala., will commence June budding the last of May. He offers to grow special orders of June buds of plum and peach for next fall's delivery. He has a complete assortment of varieties true to name. He offers pear, cherry, pecan and ornamental nursery stock.

Recent Publications

Country Life in America for May, with a thrilling salmon-fishing cover in colors, is one of the largest and most beautiful magazines of the season. Devoted to such vacation topics as camping, canoeing, fishing, mountain-climbing, woodcraft and nature study, with timely articles on home-building, chicken-raising and a hundred other subjects as well, it touches upon all sides of work and pleasure under the open sky. Among the leading features are a picturesque article by A. Radclyffe Dugmore on salmon-fishing in Newfoundland, wonderfully illustrated by his own photographs; "Ten Days in the Woods," the tale of a real camping trip; and "A Camera Hunter's Vacation," with illustrations that show some remarkable results of an amateur photographer's cruise in Florida waters.

The proceedings of the second annual convention of the National Nut-Growers' Association, held at New Orleans, Oct. 28-31, 1903, contain eighteen formal addresses and scientific papers by men of recognized ability and experience, and cover a wide range of subjects of vital importance to the industry. About twenty reports of officers and committees give much new and valuable information. The synopsis of general discussions is of particular interest along various lines, and the book is certain to be of much practical value to those interested in this department of horticulture.

A good deal of human nature is laid bare in F. E. C. Robbins's story, "Candidating," published in the Special May Number of The Youth's Companion (April 28th). There is a story for sensitive girls by Winifred M. Kirkland, a "creepy" account of "A Botanist's Adventure," by Albert W. Tolman, and the conclusion of Arthur Stanwood Pier's story of "The Last Night" at St. Timothy's School. How to make a safe sail attachment to an ordinary canoe is described by John A. Macy. In addition to these there is an article entitled, "The Snakes' Curse," by Sir Harry H. Johnston, K. C. B., recent Commander-in-Chief and Consul-General for the Uganda Protectorate, formerly Vice-Consul in the Kamerun, at which time occurred the experience described in this contribution. The issue is rich in gleanings from biography, diverting anecdotes and miscellaneous sketches.

BOX STRAPS

LIGHT SHEET STEEL STRAPS.

Averaging about an inch in width. Any lengths up to 63 inches.

The best and cheapest material on the market for the purpose. Soft, tough, strong and easily applied. A wire nail can be driven through without previous punching. Write for Price List.

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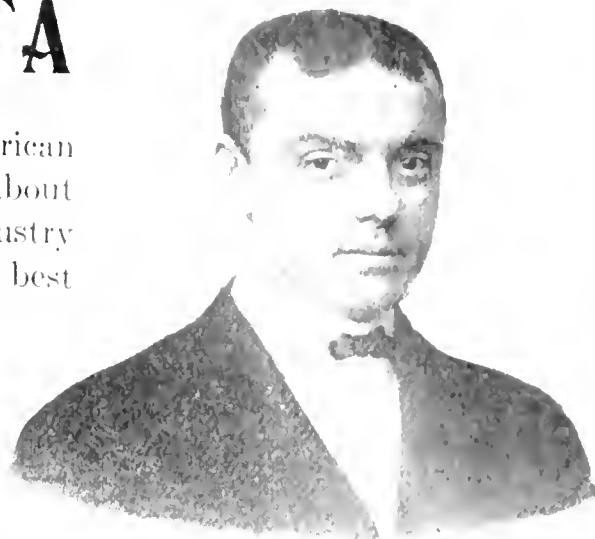
AURORA NURSERY CO., Aurora, Ill.

LOOK THEM UP AT ATLANTA

Our Messrs. Campbell and Irvine will attend the meeting of the American Association of Nurserymen at Atlanta and will be pleased to tell you about the very good season the *Western Fruit Grower* has had. The fruit industry is growing in importance, and if you want to reach the fruit farmers to best advantage, you must be interested in *The Fruit Grower*. Ask for information regarding the *World's Fair Number*.



(TRADE MARK.)
BROTHER JONATHAN.



FOR NEXT SEASON

The outlook is good for next season's business. Prospects for fruit are excellent and if the crop matures, there will be increased planting of nursery stock next season. *The Fruit-Grower* reaches over 30,000 farmers of this class every month, and is the best advertising medium to reach these persons. See our representatives (Badge No. 25), and talk the matter over.

THE FRUIT-GROWER COMPANY,

ST. JOSEPH, MO.

BRIDGEPORT NURSERIES

For Fall 1904 and Spring 1905

We will have our usual large supply and complete assortment of stock for the TRADE in CAR-LOAD or SMALLER LOTS.

For early orders special prices will be named.

Apple, Pear, Plum, Cherry, and Quince can be shipped from Dansville, New York.

Apple Trees and Apple Seedlings can be shipped from TOPEKA, KANSAS.

From Bridgeport, Indiana, we are prepared to ship a complete assortment of **Hardy Fruit and Ornamental Trees, Plants, Vines, Seedlings, etc.**

Send us your list of wants before placing orders, and we will make you prices.

Personal inspection invited—come and see us.

Spades, the BEST and CHEAPEST. **Excelsior** (baled) the best packing material for either shipping or storage (cheaper and far superior to Moss.)

Box Straps, soft steel.

Our storage and shipping facilities are unsurpassed.

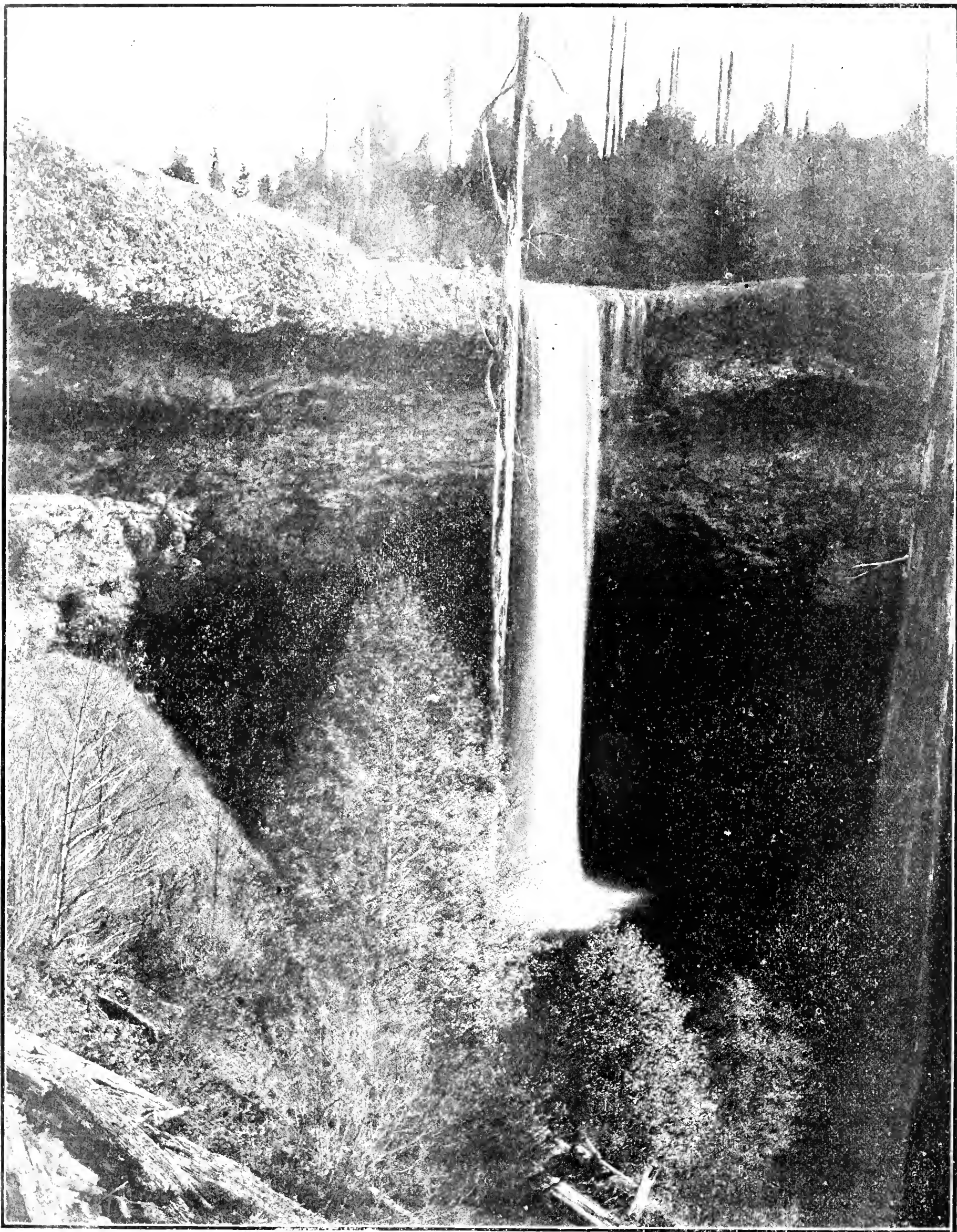
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ONE OF NATURE'S BEAUTIFUL SPOTS—SILVER CREEK FALLS, NEAR SALEM, OREGON.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XII.

ROCHESTER, N. Y., JUNE, 1904

No. 6

OREGON NURSERIES.

Beginning and Growth of the Business—Mission Fathers the First Planters—Nursery Stock from the East in 1852—By Way of the Isthmus—Modern Conditions.

H. M. WILLIAMSON, EDITOR OREGON AGRICULTURIST
AND RURAL NORTHWEST.

The nursery business on the Pacific coast had its beginnings in Oregon. The first cultivated fruit trees on the Pacific coasts were planted in California by the Mission fathers. The Hudson Bay Company had an assortment of apples, pears, peaches and plum trees growing in its garden at Vancouver, now in the state of Washington more than seventy years ago. The missionaries, Whitman and Spaulding, a little later brought to the Pacific coast and planted seeds of apples and pears from which trees were grown, some of which are bearing excellent fruit to this day. All of these planted or propagated trees for their own use and not for sale.

The first movement of home-seekers to the Pacific coast was to Oregon, naturally, therefore, it was Oregon which first attracted the attention of nurserymen.

In 1845 Mr. Henderson Luelling of Salem, Henry County, Iowa, conceived the idea of transporting across the plains in a wagon an assortment of growing trees of standard varieties as a basis for the establishment of a nursery in Oregon. He commenced preparations in the fall of that year, but did not start until the spring of 1847. He had made two boxes which together just fitted into an ordinary wagon box; in carefully prepared soil in these boxes there were growing seven hundred trees, shrubs and vines representing standard varieties and including a large number of varieties of apples and pears and a few varieties of plums, cherries, quinces and flowering plants, also one Isabella grape vine and one gooseberry plant.

SO BOLD AS TO BE AUDACIOUS.

Mr. Luelling's undertaking was so bold as to be audacious. The trip across the plains was a long and arduous one. The majority of those who started counted themselves fortunate to reach their journey's end with a small fraction of the articles with which their wagons were loaded when they started. Mr. Luelling crossed the Missouri river with his precious load on May 17th, 1847. On his way plains he was advised a number of times that his undertaking was hopeless; a clergyman urged him to unload his trees and take the more valuable (?) effects of other emigrants who had more than their teams could haul. The trip was through a dry, thirsty land and over lofty mountain

ranges, but about October first Mr. Luelling arrived safely at The Dalles, Oregon, with nearly all the trees alive. From that point he proceeded by the water route to Milwaukee, Oregon, where he established himself. Mr. George Hinies, who has an encyclopedic knowledge of the pioneer history of Oregon, says it is an unquestioned fact that no other one importation of pioneer days did so much to add to the income and wealth of the people of Oregon as Henderson Luelling's traveling nursery.

Mr. William Meek, who was acquainted with Mr. Luelling in Iowa and knew of his plan, followed his example in a small way; he started at the same time with a few growing trees of standard varieties and, having a lighter load than Mr. Luelling, reached the state first. He temporarily located in Linn county, but in the following spring (1848) took his trees to Milwaukee and entered into partnership with Mr. Luelling in the nursery business under the firm name of, Luelling & Meek. They were able to find at the homes of settlers a few seedling trees, mostly grown from seeds of fruit grown at Vancouver.

EARLY NURSERY EFFORTS.

They also used the wild crap apple and the thorn as stocks for apple and pear trees, and the wild cherry as stock for the stone fruits, but did not have the best of success with these wild stocks. They purchased some apple and pear seed from settlers who arrived in 1849, and in the fall of 1850 were able to graft 18,000 trees. In 1850, Mr. Seth Luelling (he afterwards changed the spelling of his name to Lowelling), a brother of Henderson, arrived from Iowa with a considerable supply of seed and entered the firm of Luelling & Meek. The business grew rapidly; Henderson Luelling went east in 1851 and returned in the spring of 1852 by the way of the Isthmus of Panama, and returned with a fresh assortment of standard trees, plants, etc. In 1853, the firm had four branch nurseries in operation in addition to the home nursery at Milwaukee, and had a total stock of 100,000 trees which were salable at one dollar and upward per tree.

Mr. Joel Palmer also started across the plains in 1847 with a stock of growing trees, but failed to get them through.

Mr. Ralph Geer, who also came across the plains in 1847, brought with him a bushel of apple seed and half a bushel of pear seed, and by 1852 he and his sons had made quite a start in the nursery business.

Mr. P. W. Gillette brought from the east, by way of the Isthmus of Panama, an assortment of nursery stock in 1852. J. W. Ladd started in the nursery business at Butteville in 1850, or soon after. Mr. George Settlementier engaged in the business at Mt. Angel early in the decade of 1850-60.

The first fruit grown from grafted trees in Oregon brought

almost fabulous prices in California, and fruit growing and the nursery business developed with great rapidity in Oregon from 1850 to 1860. Nurserymen were enterprising and brought from the east almost everything in the fruit line which gave promise of being valuable in Oregon. In 1858, 1859 and 1860 the columns of the Oregon Farmer were crowded with articles on fruit growing and the cards of nurserymen were numerous in its advertising columns. Among these advertisers were Luelling & Merriek, J. D. Walling, G. W. Walling & Co., J. W. Ladd, Philip Ritz, William Simmons, R. C. Geer, David D. Prettyman, John R. Porter and Daniel Brock. Among other nurserymen then in the state were Henry Miller and J. H. Lambert, who were in partnership somewhere about that time.

About 1860, fruit trees began bearing extensively in California the price of Oregon dropped from its high standard and the nursery business languished. Articles on fruit growing became rare in the columns of the Oregon Farmer; the advertisements of nurserymen were no more to be found in it, and finally the publication of the paper ceased.

In 1860 the retail price of apple trees in Oregon was ten to twenty-five cents each, and of pear trees thirty to seventy-five cents. As the demand for trees declined in Oregon the nurserymen were compelled to look outside of the state for a market. In the month of March, 1861, a shipment of 6,100 trees was made to Victoria, British Columbia. The more enterprising nurserymen began to push sales of trees in California and by slow degrees the business was built up again, but not on a large scale until the great fruit planting began in the decade of 1880-1890. Oregon nurserymen by that time were finding customers in California who would take carload lots of trees, and there was a sudden great increase in the demand for trees in Oregon, Washington and Idaho. The tree planting boom reached its highest point about 1892, and the great demand for trees, and comparatively high prices obtained for them, induced a large number of men to engage in the business, many of whom, unfortunately, were not fitted by training, or in other ways, to be nurserymen. The sudden collapse of the boom in 1893-1894 was disastrous to nurserymen; trees were offered for sale at prices which would hardly pay for digging and crating or boxing them.

PAVED WAY FOR DEVELOPMENT.

The terrible depression in the business not only drove the unfit out of the field, but almost or quite broke up those who deserved to fare better. This disaster, however, paved the way for a development of the nursery business of the state which would never have been possible under the method of doing business which prevailed prior to the crash. Under the old system the nurserymen made no systematic effort to sell trees direct to planters. They depended mainly on catalogues for the sale of their trees and most of the sales, were to local dealers in trees, who usually styled themselves nurserymen, or agents for nurserymen, but were in fact only retail sellers.

The hard times brought new blood into the business, and with it the methods which the experience of successful nurserymen of older states have found essential to success. The business was pushed and customers were developed.

The nursery business in Oregon may be said to have been fairly on its feet again in 1900, since that time its development has been remarkably rapid. The more enterprising nurserymen of the state have worked up the sale of Oregon grown nursery stock throughout all the great expanse of country, from Alberta and Manitoba on the north to Arizona, New Mexico, Texas and even old Mexico on the South. The business of a single nursery provides employment for more persons than any other one industry at the capital city of the state, a place of over twelve thousand inhabitants.

The nursery business now brings more money into the state than any other one horticultural line, excepting apples and prunes.

GROWTH NOT DUE TO BOOMING.

The great growth of the business in the past four years has not been due to any boom in orcharding. In a former period of growth nurseries multiplied and their business grew because of a craze for orchard planting. The growth of the last period has been the result of the efforts of the nurserymen themselves, who have systematically worked up a demand for trees, and have pushed into new and undeveloped regions and created there a demand which they were prepared to supply. The leading nurseries of the state are now conducted with the thorough organization and systematic methods which are characteristic of all great modern enterprises. The change from the old system to the new worked hardship on some of the worthy nurserymen of the old regime, but it was a change which meant progress, and placed the nursery business of the state fully abreast of the times.

From the starting point to the present time the nurserymen of Oregon have been factors of great importance in promoting the welfare of the people of the state and adding to the wealth of the state as a whole.

The limits of this paper do not permit reference to the very valuable work which has been done by Oregon nurserymen in originating and propagating new fruits which have proved of great value.

OREGON NURSERY COMPANY.

SALEM, Ore., May 12—"We had the largest season's business we have ever had and while the latter end of the season has been somewhat later than usual, we find that collections are fairly as good as last year.

"From the present outlook we believe that the nursery business on the Pacific coast is generally very prosperous and there is a bright outlook for the future. All lines of nursery stock never were so closely cleaned up as during the past season with us and many varieties of trees were entirely sold out long before the end of the season. This was especially so in cherries and peaches.

"The winter with us was very favorable for the shipment of nursery stock. Our first shipment was made on the 13th day of October, 1903, and on April 12th we were still sending out odd shipments of trees, making seven months of a continuous shipping season; and during this entire period there was probably not a day in which we could not ship trees. We challenge any other section of the United States to surpass or even equal this record for a long shipping season."

FOR PORTLAND NEXT YEAR.

Reasons Why Convention of American Association of Nurserymen Should Be Held on Pacific Coast In 1905—Lewis and Clark Exposition Year.

The members of the American Association of Nurserymen have been invited to hold their 1905 convention at Portland, Oregon. The Lewis and Clark Exposition is to be held in that city then and added inducements are held out to the nurserymen of the country to meet with their coast bretheren.

A member of the Pacific Coast Nurserymen's Association, referring to this matter, says:

"It would be a generous move on the part of the nurserymen of America to hold their annual convention in the city of Portland, Oregon in 1905, at which time the Lewis & Clark Exposition will be in progress, which exposition will commemorate the centennial of the acquisition of the great Oregon country; a territory that has added more to the wealth of the nation in undeveloped natural resources than any other acquired by this government, and particularly in the expansion and development of the nursery interests of the whole country. And yet this vast field is scarcely touched so far as horticultural development is concerned, and the next twenty-five years will surely see more progress and real expansion in the Far West in the nursery business than in any other portion of this land.

"It will not only be a generous act on the part of the National Nurserymen's Association to meet on the Pacific coast and help commemorate the acquisition of this wonderful and resourceful country, but a good business policy on the part of the nurserymen to come to Portland at this time, when the members of the Association can view all the varied products of the original Oregon country gathered together for exhibition purposes, at which time they will be able to see for themselves the wonderful resources and future possibilities of the Pacific coast for the sale of nursery products in the next decade.

"While nurseries will, no doubt, increase and multiply on the Pacific coast the development of the country will be even more rapid and great quantities of nursery stock will necessarily have to be shipped from the East to supply this ever-increasing demand.

OBJECTIONS MET.

"There are but two objections that have been advanced in opposition to holding the convention at Portland in 1905: First, that it is too far away; second, that an exposition city is not a good place to hold a convention. The first argument against holding the convention on the Pacific coast falls by its own weight, for this is a national association and there can be no East or West, no North or South, nor far nor near, and, with the number of nurserymen on the Pacific coast, they are surely justified and entitled in claiming the right to have the convention this once, at least. Besides, the low rates promised by the railroads for the Lewis & Clark Exposition makes it practically as cheap for the nurserymen from the Atlantic coast to come to Portland as it would be for the same men to attend a convention in the city of Chicago.

"The second argument that it is not a good place to hold

the convention on account of the Exposition attracting the members away from the convention, does not apply in this case, for all attending will arrange to stop over in Portland longer than if only going to some city close at home, and will surely be able to spare the necessary time to attend the convention first and see the fair afterwards. Besides, the eastern nurserymen would travel in a special train provided for themselves, and on the three days' trip would be able to visit, and discuss many subjects of mutual interest that are usually discussed in the lobbies of the hotel to the detriment of the sessions of the convention. And there is no doubt that this meeting would be the best attended of any annual convention ever held, for there are doubtless a hundred nurserymen on the coast who would attend, backed by the Pacific Coast Nurserymen's Association, which association will guarantee the success of the meeting and the entertainment of eastern members.

WILL ADD NEW MEMBERS.

"This meeting in Portland will add many new members to the association who, attending these meetings of the association for the first time, will realize the benefits to be derived from such a meeting, and will always thereafter be found present. Nothing will enlarge the scope of the association and give individual members that feeling of national importance that this Pacific coast trip would; enlarging their views of our wonderful country and its immense possibilities for the planting of fruit trees, shrubs and flowers and the development of the nursery business generally.

"Every nurseryman should attend the convention to be held in Atlanta, Georgia, this year and go prepared to vote for Portland, Oregon, as the proper place of meeting in 1905."

DAVIS COUNTY NURSERIES.

SALT LAKE CITY, Utah, May 16—Harness, Dix & Company: "On account of the late backward spring, the outlook for immediate business in Utah is not encouraging; but as a whole, the past season has been an exceptionally good one, in fact a banner year, as we have shipped largely east and west from this point.

"Our trade has been exceptionally good; we have sold all of our stock and we have been turning down orders for the past thirty days.

"As a whole, we think the business is healthy and predict the coming year will be fully as good as the past."

THE MILTON NURSERIES.

MILTON, Ore., May 28th—A. Miller & Sons: Our trade this spring was all that we could ask for, having closed up on all stock in nearly every line, except in Ben Davis, the planters having dropped this variety almost entirely from their list. There was a marked shortage in sweet cherries, especially so in Bing, Lambert and Royal Ann.

"The prospects for trade during the coming season are exceptionally good. Our men are sending in good reports. We believe this is accounted for by the many new settlers who are coming in from the middle and eastern states. The crop prospects were never more favorable at this time of the year, as there has been an abundance of rain.

We feel encouraged in the business and believe there is prosperity ahead for the nurserymen of the great Northwest."

PUGET SOUND'S FUTURE.

Possibilities for Nurseries and Orchards—Many Persons From the East Settling There—Home of the Big Cherry—Fine Prospects for Small Fruit Culture.

JOHN M. STEWART, CHRISTOPHER, WASH.

The past season's business has been a good one, and the outlook is very encouraging for the sale of nursery stock. A great many people are coming in from the east and settling on small tracts of land in the Puget Sound district with the intention of making permanent homes for themselves; they find it a great contrast to the rigorous climate they have been experiencing in the east. This year we have had but very little winter weather to speak of, perhaps a few slight falls of snow, which did not get a chance to lie long enough on the ground to give one the pleasure of a sleigh ride, neither have we had any freezing weather, not over ten degrees below freezing point at the coldest, and in fact we seldom or ever get enough frost to freeze ice to make skating a pastime.

There are not so many large and extensive orchards on the sound as there are in the eastern part of the state, but fruit does well here, and new comers must have a home orchard set out the first thing.

This has been a wonderful spring, it has just kept cool enough to keep back the buds from leafing out, but now at this writing it looks as though summer had burst in upon us all of a sudden. The prospect for an abundant crop of fruit was never brighter, although we never have an entire failure. On the islands of Puget Sound, Vashon, Orcas and San Juan, well colored red winter apples can be raised to perfection, and I have seen just as fine specimens as any from parts of Eastern Washington. It is necessary in order to get the best results to trim the trees and keep them open to the sunlight as much as possible.

The cherry does especially well here; it is the home of the cherry. Such cherries! Large, fine and luscious, they are an eye-opener to any who have never seen them before. There is no part of the world, I venture to say, where they can be excelled. They bear every year abundantly and bring good prices. The Royal Ann and Napoleon Bigarreau are no doubt the finest. There are a number of other good kinds, such as the Bing and Lambert, these are dark sorts, all very large and sweet. Sour varieties (which are used for canning) are being planted extensively for that purpose, such as the Early Richmond and Montmorency. To give some people an idea of the extent of the planting of cherry trees here, I sold to one party for his own private planting 1,000 Bing cherry trees, and to another 175 Montmorency

Plum and prune trees do very well, but are not grown to any extent here. The quince does very well here also.

The peach cannot be depended on as a sure bearer; there

is a variety however, called the Fidalgo (named after an island on Puget Sound) which is hardy and a sure bearer every year.

Grapes can also be raised; such sorts as Moore's Eearly and Niagara are the best on account of their earliness in ripening.

All kinds of small fruits and berries do exceedingly well here, especially the raspberry and blackberry. Puyallup and Sumner are famous for their extensive shipments of these berries which are sent by refrigerator service as far east as St. Paul and bring good returns. The varieties planted are the Cuthbert and Red Antwerp raspberry and the Mead or Snyder blackberry, still there is money to be made in planting the Evergreen blackberry which yields enormously; it is, as the name signifies, evergreen, and is a rampant grower and very hardy.

Strawberries do especially well on the slopes of Lake Washington near Seattle and on Vashon Island, and in fact on any of the upland around the Puget Sound basin. The Clark Seedling or Hood River is in particular favor, because of its good shipping qualities. The Magoon is also planted extensively and is a good cropper, it is well adapted to the valley lands where the Clark's will not do well.

Puget Sound is but in its infancy, and its outlook is beyond our conception in its rapid growth and development. It will lead in the not far distant future.

S. A. MILLER.



S. A. MILLER, MILTON, ORE.
President Pacific Coast Nursery Ass'n.

Among the younger nurserymen of the Pacific coast who are rapidly pushing their way to the front is S. A. Miller of A. Miller & Sons, Milton, Oregon.

Born in California July 18th, 1866, he moved with his parents to Umatilla County, Oregon, in 1872, when the country was very thinly settled, except by the native red man. Here on the banks of the Walla Walla river they homesteaded 160 acres of government land within one mile of where since has been built the thriving little city of Milton. His father, A. Miller, started the Milton nurseries in 1876 and is now a retired member of the firm.

Although but ten years of age when his father established the nursery, he was at once initiated into the mysteries of the craft and has ever since worked at the business in all its branches from the planting of the seedling, grafting, budding, training the tree and selling the finished product to the orchardist, and in all these various branches of the nursery business has been entirely successful. In 1896 Mr. Miller assumed the general management of the modest business built up by his father, and under his careful and enterprising management the Milton nurseries has grown to be one of the largest in the Pacific Northwest.

Mr. Miller was instrumental in organizing the Pacific Coast Nurserymen's Association, and at the last meeting held in Portland, Oregon, June, 1903, was elected its president.

In addition to the close attention necessary to a large

nursery business, he has found time to take an active part in the upbuilding of his home town and is popular at home where he is best acquainted, having served several terms as councilman, and in 1897 was elected mayor, which office he now holds, having succeeded himself at each annual election. He is a member of the Board of Regents of Walla Walla college and also a member of the Milton school board.

MOUNT TABOR NURSERIES

MT. TABOR, Ore., May 16—T. V. Sluman: "Mount Tabor Nurseries are located on the eastern slope of Mt. Tabor, Oregon, a suburb of Portland, three miles from the main business district of the city. We grow a full line of nursery stock, fruit trees, shade trees, ornamentals, small fruit, shrubs, vines, plants and roses.

"Almost all plants do well here excepting the citrus varieties. The nut-bearing trees have passed beyond the experimental stage. Mt. Tabor has an elevation of about 600 feet above sea level; on the west overlooking the city of Portland and the beautiful Willamette river; on the north the Columbia, the only home of the king of all food fishes, "The Royal Chinook Salmon." On the east is a very fertile tract of land, the Powell Valley, producing grain, grass, vegetables, fruits and timber to perfection, also pasturage for live stock the entire year. South, at the base of Mt. Tabor, are two immense reservoirs containing a great volume of water supplied by the snowy peaks and springs from the Cascade mountains, for the benefit of Portland and its suburbs, a city of 110,000 inhabitants.

"Our state enjoys a climate that in mildness and equability is unsurpassed on earth and is unrivalled anywhere else in the United States, and it is as healthful as it is delightful. Oregon is everywhere dotted with schools, colleges, universities and churches.

"The proprietor of these nurseries invites those interested enough to attend the Lewis & Clark Centennial Exposition to be held in Portland next year (1905) to ascend Mt. Tabor and view the beautiful scenery, as well as the nurseries."

MONTE VISTA NURSERIES

SCAPPOOSE, Ore., May 11—A. Haladay: "The season has been quite satisfactory to me. Sales have been about twenty per cent. greater than last year, but collections have been somewhat slower on account of the bad weather last fall and lateness of this spring.

"This is a country of tall timbers and the ideal home of the big Northern Spy apple, several carloads of this variety having been shipped out of here this last spring.

"I think the outlook for the nurserymen and fruit-growers of the Pacific coast is very bright."

THE O. F. GRIFFIN NURSERY COMPANY.

POMONA, Cal., May 10—"We have no immense business to report as this has been an off season for our oranges; still we have sold nearly twenty thousand trees.

"The planting of deciduous trees has been small yet nearly all kinds have brought good prices. There has been a large acreage of walnuts planted and it looks as if it would continue. Have sold some over eleven thousand walnut trees this season and will have fully fifteen thousand to sell next season."

Among Growers and Dealers.

Charles W. Stuart, of the firm of C. W. Stuart & Co., is a director of the First National bank of Newark, N. Y.

In honor of the third term of Mayor Orlando Harrison, of Berlin, Md., a banquet was given at the leading hotel of that place last month.

South Carolina has passed a bill providing a penalty of \$5 per day for every day in excess of the time before limited, for unnecessary delay of freight.

Articles of incorporation were filed May 4 by the Watrous Nursery Company of Des Moines, Ia. Capital \$20,000; C. L. Watrous and Charles A. Watrous, incorporators.

Henri VanDerBom of the firm of H. W. VanDerBom & Co., nurserymen, Oudenbosch, Holland, arrived per S. S. Rotterdam, and will make an extensive trip through the states. His address will be in care of McLutichison & Co., 218 Fulton Street, New York.

J. Frank Jones, who for the past six years has been connected with Glen Bros. of Rochester, N. Y., has gone to Lawrence, Kansas, to take charge of the retail business of the Mount Hope Nurseries at that place.

James M. Kennedy, of Dansville, N. Y., has set out this spring 150,000 seedlings in the town of Geneseo on one of his farms about fifteen miles from Dansville, situated in the Genesee valley, which is a most desirable place to grow good nursery stock.

H. J. Weber & Sons Nursery Co., at Nursery Station, St. Louis, Mo., write under date of May 2d: "Our season has been the longest we have ever had. Trade opened up here about the first of March and since then we have had all we could do. All the surplus we have consists of peach mostly, a few hundred pear and cherry and possibly 500 apple and a few varieties of grape vines. Our heaviest trade has been in the ornamental line; everything of any size is cleaned up."

THE FRUITLAND NURSERIES.

The largest nurseries in the South growing a general line of fruit and ornamental trees, shrubs and vines and greenhouse plants are owned by the P. J. Berekmans Company, incorporated, proprietors of Fruitland Nurseries, at Augusta, Ga., says the Florists' Exchange. This establishment has been steadily growing larger and becoming more widely known every year since its inception in 1856, and now the products of this company are sent to every section of the United States and to many foreign countries.

The nurseries are situated four and a half miles west from the center of the city of Augusta, Ga., and contain 400 acres, in which are most of the different textures of soil found in that section of the state, thus enabling an enormous number of varieties of nursery stock to be grown to the best advantage in the soil particularly adapted to their growth. Of these 400 acres, 25 are devoted to the choicest and most popular varieties of roses, 275 acres are occupied with fruit trees of thoroughly tested varieties; there are 10 acres in grapes, 15 acres in small fruits, 40 acres in evergreen and deciduous trees and shrubs, and 25 acres in orchards and testing grounds. The immense quantities of peach trees and nut trees handled by this company are grown at the orchards of the Berekmans Bros., Mayfield, Ga., all buds and grafts being cut from healthy, vigorous, bearing trees, thus guaranteeing the stock to be true to label.

The greenhouse department is made up of 60,000 square feet of glass, devoted to the growing of palms, rubbers, citrus fruits, caladiums, and other specialties in immense quantities.

RESOURCES OF OREGON.

Two Million Acres In Cultivation—Willamette Valley the Wealthiest Part—Fruit Industry of 1903 was \$2,501,000 In Extent—The Apple Leads.

JEFFERSON MYERS, PRESIDENT LEWIS & CLARK EXPOSITION COMMISSION FOR STATE OF OREGON.

Oregon lies between the 42d and 46th degrees of north latitude. From north to south the distance is 275 miles, and from east to west about 350 miles. It contains 95,274 square miles, or 60,976,000 acres of land. Of this there is in cultivation about 2,000,000 acres. Oregon has a continuous navigable water front extending from the northern boundary of California northward along the Pacific coast to the mouth of the Columbia river; thence up the Columbia along the northern boundary of the state nearly to its eastern limit. Of this distance 300 miles are along the shores of the Pacific Ocean and 270 miles are along the navigable waters of the Columbia river. The Columbia river furnishes a harbor considered one of the best and safest in the world.

The Cascade mountains extending north and south divide the state into two great divisions, known as Eastern and Western Oregon. The first division embraces the counties of Wasco, Crook, Harney, Lake, Klamath, Wheeler, Gilliam, Morrow, Grant, Umatilla, Sherman, Union, Wallowa, Baker and Malheur. The second division contains the counties of Clatsop, Columbia, Washington, Clackamas, Marion, Linn, Lincoln, Yamhill, Polk, Tillamook, Benton, Lane, Douglas, Coos, Curry, Josephine, Jackson and Multnomah.

The Willamette Valley is the principal valley in the state and the wealthiest part of Oregon. It is drained by the river of the same name, which stream is navigable for a distance of 125 miles from its mouth. It flows northward about midway between the Coast range and the Cascade mountains, and empties into the Columbia river at a point about 100 miles from the ocean.

The valley begins at the Calapooias on the south and extends to the Columbia river on the north, a distance of about 130 miles. It has an average width of about 60 miles and comprises one beautiful sweep of valley of about 7,800 square miles or 4,992,000 acres of land, all of which is highly fertile.

EASTERN OREGON.

Eastern Oregon resembles in form a parallelogram, 275 miles long and 230 miles wide. The surface is diversified by mountains and valleys, rolling and table lands. A watershed is formed by the Blue mountains on the north and the Snake mountains on the south, in the main parallel with the Cascades and extending the whole length of the state.

From this watershed the land slopes eastward to the Snake river and westward to the lower land east of the Cascades, through which flow the John Day and Deschutes rivers. An extensive tract of country known as Sage Plains lies between the Crooked and Deschutes rivers and the headwaters of Silver creek on the west, north and east; and the highlands of Lake County on the south. Irrigation has developed the fact that this land, which was thought to be unfit for cultivation, is fertile and produces excellent crops. Rain seldom falls, but the land can be easily furnished with an abundance of water from irrigating ditches. The valleys along the various streams on both sides of this watershed have long been noted for their richness and fertility.

The population of the state of Oregon at the present time is about 500,000. It is estimated that there is over twenty five million acres of vacant land yet untaken in the state, a great deal of which can be made very valuable and homes established for many families.



JEFFERSON MYERS.

There were in the state at the end of the year 1903, 94 banks, with an aggregate deposit of \$60,615,000. This will indicate something of the wealth produced here. There are 1,608 miles of railway trackage in the state, the principal lines being the Oregon Railroad & Navigation Company, from Portland to Huntington, and the Southern Pacific from Portland to Ashland. Portland's export trade with foreign countries for the year 1903, amounted to about \$11,000,000, and the export from this port is one of the largest in the United States.

At Salem, the state capital, in Western Oregon, is the most important hop producing district to-day in the United States. The crop for 1903, amounted to about 85,000 bales out of a district of about 20 miles around this point, valued at \$3,500,000, a large portion of this being profit to the grower.

NATURAL PRODUCTS

The salmon industry on the Columbia river, the chief canneries being located at Astoria, produced about \$3,700,000 worth of fish for the year of 1903. The product is not all canned, but large quantities of the fish are shipped east in cold storage and there marketed.

The forests of Oregon produced for the year of 1903 over one hundred million dollars, including poles, ties, cordwood, hard wood, manufactured wood and lumber. The mines, located chiefly in Southern Oregon, and in Baker and Union Counties in Eastern Oregon, with coal mines in Coos, Morrow and other counties, produced all told about \$6,000,000. The live stock brought in for the year 1903, through sales to the meat packers, over \$12,500,000, while butter, cheese and milk brought \$4,200,000. Poultry and eggs brought over \$4,250,000, not including the amount consumed by the producers. There was produced wool and mohair valued

at \$3,200,000. The wool and mohair produced in this state are of a very fine quality and bring the highest market price as a rule. It is estimated that about one-tenth of this product is manufactured by the mills of Oregon into blankets, flannels and other goods, and that the products from these mills for the year 1903 amounted to nearly two million dollars. There was produced from wheat, corn, hay, potatoes, barley and vegetables for the year 1903 over \$75,000,000. In the eastern part of the state the yield of wheat is very large, and perhaps is not equalled in any other state in the Union. Corn is raised in the Willamette Valley and in Southern Oregon, and makes very good crops. In nearly every portion of the state the hay crop is as a rule good, and the amount is very large, a part of it being shipped to foreign countries. The yield of potatoes is large and of very fine quality, and they are shipped all over the United States. A large amount of barley is produced and shipped for the Oriental trade. Vegetables are being canned and preserved in various ways for the market, production being large and inexpensive.

As for the fruit business in Oregon, everything seems favorable to its success and prosperity. The receipts for the year 1903 show an increase of over \$200,000 over those of the preceding year, and although perhaps not more than one-twentieth of the land suitable for the purpose is in orchards, already the receipts from this industry are among the most important of the state's assets, the total for 1903 being \$2,501,000. The apple leads and is destined to lead in commercial importance from this time forward. The acreage of apple orchards is rapidly increasing and the excellency of the product has made Oregon apples famous all over the world and causes them to bring a superior price wherever put on sale. There are no "off years" in Oregon, and properly cared for the apple crop is sure for an indefinite period, as the age limit has never been reached on the trees, there being trees 50 years old that still produce vigorously. The opportunity for up-to-date orchardists is nowhere equalled outside the limits of this wonderful Oregon.

But while the apple is to lead there are other varieties of fruit which yearly add large wealth to the coffers of the Oregon farmer. In some of them, too, Oregon leads the world and its cherries, especially the Royal Anne, and pears, as well as small fruit, are sold in the markets of New York, Philadelphia and London without regard to the prevailing prices, since they have practically no competition. The larger portion of these fruits, is, of course, canned for the market and buyers have not been able to contract for the amounts they wish. One local canner could have sold to one firm in London more pears than he could pack in three years.

The conditions indicate that in course of time Oregon will become the packing center for special lines of fruit, in the growing of which she excels. These include berries, cherries, apples, Bartlett pears and plums. Northwestern Oregon cannot always depend on a crop of peaches, but they can be packed in Southwestern Oregon. They grow well in the Snake River Valley and in the vicinity of The Dalles, and in the course of time those sections will have their own peach canneries. The east cannot compete with Oregon at all as regards Bartlett pears and cherries, so that

there will be room for as large a supply as the growers care to produce.

THE PRUNE CROP

In 1903 the prune crop of Oregon was estimated at 25,000,000 pounds, not including some 5,000,000 pounds grown in a portion of Washington, which is commercially a part of Oregon. The total crop of what are called "Oregon prunes" is about 30,000,000 pounds. Estimating the average price at 3½ cents a pound, the entire crop was worth about \$1,125,000. While the establishment of the prune industry has been full of difficulties, it is now recognized as one of the permanent and profitable enterprises of the state.

With the continued application of scientific business methods to the fruit business, the best example of which is found at the present time in the Hood river country, each year will see a great step in advance in the extent of acreage, the production per acre and the profit derived, and no business of which we have knowledge offers a better opportunity for pleasant, profitable and healthful work.

The Lewis and Clark Centennial Exposition Commission, which I have the honor to represent as president, was appointed by the Governor of the state of Oregon, in accordance with the provisions of an Act of the Oregon legislature, which appropriated \$500,000 to be expended by said Commission in aiding to hold an international exposition at Portland, Oregon in 1905. This Exposition will commemorate the 100th anniversary of the exploration of the Oregon country by Lewis and Clark in an expedition planned by President Jefferson, which resulted in giving our government its first foothold on the Pacific coast. At this exposition there will be made a display of the resources of this Oregon country, tending to show the tremendous increase in wealth which has taken place in the past fifty years, and the possibilities of its still undeveloped resources. A larger object of the exposition is to demonstrate the possibilities of trade with the Orient, and to this end the magnificent government exhibit from the Philippine Islands will be of great value. A beautiful site has been secured and prepared and with the participation of the other states of the Union and of the national government, and the kindness of the transcontinental railroads in granting low rates, a successful exposition and large attendance should be assured beyond a possibility of doubt.

THE FRESNO NURSERIES

FRESNO, Cal., May 10, 1904—F. H. Wilson: "The sale of nursery stock throughout the great San Joaquin Valley of California has been very good the past season, indicating that farmers have faith in the fruit industry and they are investing their money with prospect of good returns.

"The Fresno Nurseries of Fresno and Dinuba, California, have just closed their season's business and the aggregate sales of this concern show considerable increase over former years, in fact the season has proved a very profitable one from a nurseryman's standpoint.

"The outlook for next season's plant throughout the state is very good and with a good winter rainfall the sale of nursery stock generally in California will average as well as this season, if not more. In Central California, the sale of Raisin grape vines has been very active and a great many wine grapes have also been planted. Fruit trees have sold well throughout the state and the season all around has been a good one and fully up to expectations."

CHICO RANCHO NURSERY.

Founded By General John Bidwell, Pioneer Fruit Grower and Nurseryman—Historical Oak, Sir Joseph Hooker, Largest in the World.

Among the earliest pioneers on the Pacific coast was the late General Bidwell; he arrived in California in 1841, then a young man of twenty-one; shortly after his arrival he acquired the famous Rancho del Arroya Chico, and so laid the foundation of the most famous ranch in the state of California, and perhaps the greatest fruit ranch in the world. From the time he purchased this ranch he devoted his time to the improvement of his landed estate.

Always a lover of nature, yet devoted to improvement in its best sense, General Bidwell, while retaining much of the natural beauty of the Rancho Chico, has brought into action the most diversi-

fied system of improvement to be found within the limits of any state. His experimental tests with new and promising varieties were numberless and continuous throughout a long series of years, and probably no one man did so much to determine and proclaim the horticultural possibilities of California as General Bidwell. In his experimental orchard are to be found more than

four hundred varieties of trees in bearing, and so great was his zeal and confidence in the fruit industry that in the early fifties he rode on horseback from the Rancho Chico to the old Spanish Mission of San Luis Rey, a distance of more than five hundred miles to procure the trees for his first planting, and since that date with each recurring year he has added to his orchard extension, until now, two thousand acres of thrifty and productive fruit trees beautify and enrich this wonderful property. Here are to be found almost every variety of fruits and nuts that will grow in a semi-tropical climate.

AN IMMENSE OAK.

The great English botanist, Sir Joseph Hooker, once visited General Bidwell, and stated that England and California were peculiarly the home of the oak, and although he had seen all the oaks famous for their size in England, the one on the Rancho Chico was larger than any in his country. General Bidwell paid him the compliment of naming the oak after him. It is over twenty-six feet in circumference

six feet above the ground, and its branches have a spread of one hundred and fifty feet. This immense tree has had a growth of one foot per year since first measured by General Bidwell over twenty-five years ago; it is extensively known as the Sir Joseph Hooker Oak, and annually receives the visits of many travelers.

The proprietors of the Chico Nursery Co., before locating their nursery, made extensive examinations into the soil and climatic conditions of California generally, and after the most careful investigation of the soil, climate, and other considerations for an ideal nursery location, finally selected a tract at Chico near this famous oak as the best on the Pacific coast, which is equivalent to saying, the best in the United States. That their judgment was correct has been fully demonstrated by the past season's business, as they were compelled to close their sales during the season just past, shortly after the first of the year, on account of having

received orders covered their immense stock. There are very bright prospects for the coming season, and they have increased their plant four-fold to meet the increased demand.

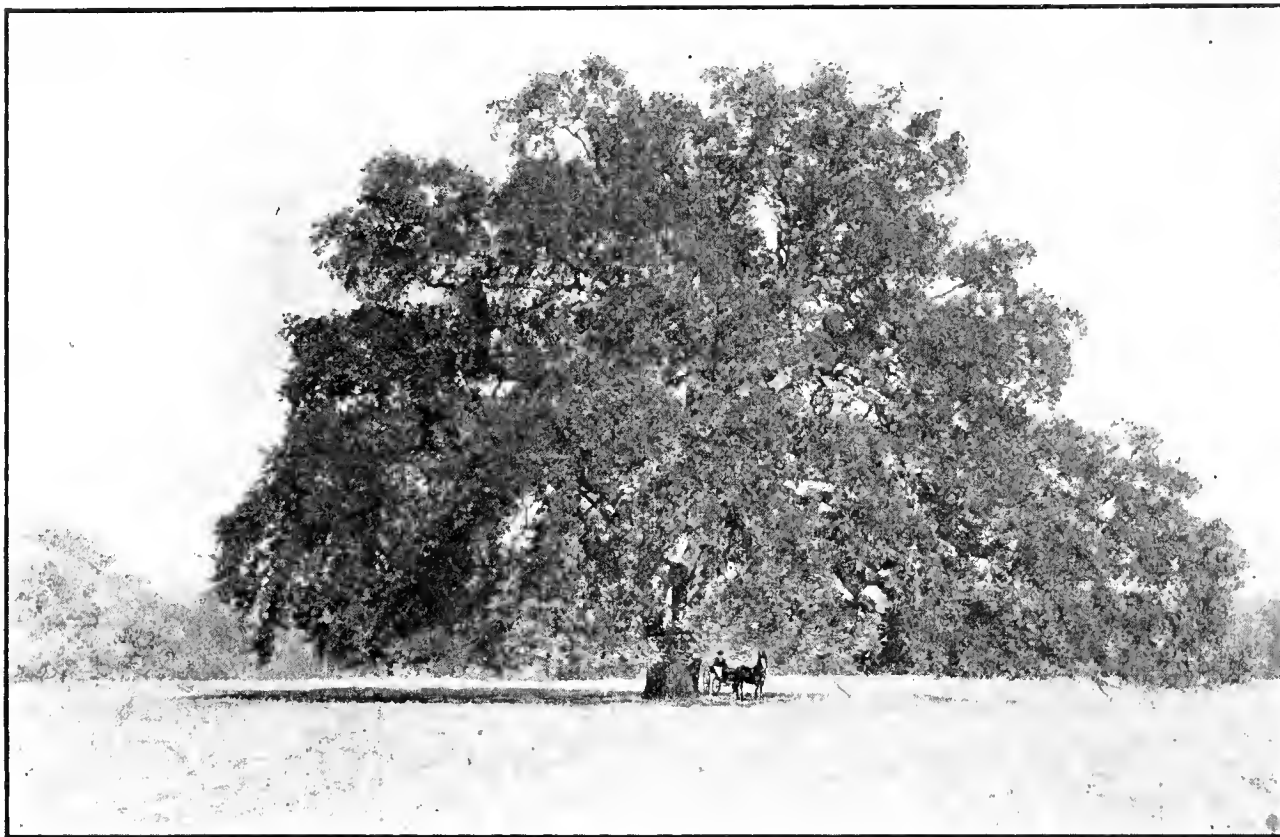
SEAT OF U. S.
EXPERIMENT
STATION.

No better proof could be had of the wise selection of Chico as a great nursery center, than the fact that here is to be located the great United States Ex-

periment Station for the Bureau of Plant Industry of the Department of Agriculture; and that after a careful examination by government experts the Hooker Oak tract at Chico was chosen as the most favorable spot in this wonderful state.

The experimental tests already made by General Bidwell had proven the great horticultural capabilities of this locality and its adaptability to the growth of trees and plants; this, together with the very rich sandy loam, soil fifteen to twenty feet in depth, free from alkali and coarse gravel, holding moisture well, and the freedom from both injurious hot winds and hard frosts, with an unlimited water supply a few feet below the surface make this the truly ideal spot for nursery and experimental purposes to be found in this country. Fine transportation facilities also added weight in selecting this point.

The great value of the United States Experiment Station to the entire country can hardly be fully appreciated at present, and to Chico and vicinity it is beyond estimate, as all new varieties discovered by the entire corps of skilled scientific explorers sent out by the Department of Agriculture will here be gathered and thoroughly tested.



SIR JOSEPH HOOKER OAK ON RANCHO CHICO.

A. MCGILL.

Mr. McGill was born in Western Ontario, Canada, and his early life was spent on the farm, where he passed through and graduated from the public schools, and for a short time attended one of the higher institutions of learning in that country.

From boyhood his mind was bent on commercial pursuits, and at the early age of sixteen in 1882 he engaged with the firm of E. C. Pierson, nurserymen of Waterloo, New York, as travelling salesman, and from the very beginning was eminently successful in his chosen calling. On account of his extreme youth, he was known all over Western Ontario as the baby tree-man. Being ambitious and energetic he at once pushed himself to the front, as a successful nursery saeseman, and in four years was the leading salesman amongst a large force on the road for the Waterloo nurseries.

In the spring of 1886, he in company with his brother P. J. McGill, formed a partnership, under the firm name of McGill Bros., of London, Ontario, as dealers in nursery stock, and for the next five years he was the leading spirit in that firm, and built up a large and profitable business.

Being ambitions to increase the firm's trade faster than his partner desired, he sold out his interest to his brother, and at once started for the west, first going to the state of Washington and the next year to Oregon. In the following spring he formed a partnership with M. McDonald, who was for five years in the employ of the old firm of McGill Bros. The new firm was known as McGill & McDonald, and did business under that name for three years, when the Oregon Nursery Co. was incorporated, and he became secretary and treasurer, which position he still holds.

It is largely due to his untiring energy and push, together with close application to the details of the nursery business that his company stands out prominent amongst all the leading nurseries on the Pacific coast to-day, whose operations extend from British Columbia and the Canadian Northwest territories in the north to California, Arizona, Texas and Old Mexico on the south. This enterprising company, not content with having covered the Pacific coast with their salesmen have during the past winter opened an office in Detroit, Michigan, where men will be managed and sales pushed throughout the entire Eastern States and Canada.

Mr. McGill is amongst the youngest of the nurserymen in the United States who represents large nursery interests. His company being amongst the most extensive operators in the production and sale of nursery products in the whole country.

He has always taken a great interest in association work, and was instrumental in the formation and building up of the old Oregon Nurserymen's Association, and one of the leaders in the formation of the Pacific Coast Nursery Association, which association is now in active operation, and doing some good work for the nurserymen of the Pacific coasts.



A. MCGILL, SALEM, ORE.
Oregon Nursery Co.

REMLINGER BROTHERS.

VANCOUVER, Wash., May 12—"Will say in regard to last season's business that it was fully up to expectations, the demand for trees being very brisk and collections very good. As for the future, we think the outlook from a nurseryman's standpoint is very bright.

"Vancouver, now headquarters for the great prune industry of Clarke county, which we believe ranks all other sections in the Northwest, is also the great military reservation on which the government is now spending thousands of dollars. Its present site was once the Hudson Bay Company's headquarters when the major portion of the Northwest was claimed by the British."

CHICO NURSERY COMPANY.

Chico, Cal., May 16—"The only fault that we have to find with the past season is that we did not have nearly enough trees to supply our trade. Our stock of peaches, cherries and prunes were exhausted very early in the season, and we had to turn down orders for trees at the latter end. The season's business has been all around a good one with us; collections have been fairly good, and the prospect for the future is very bright. We will have a very large stock for the coming season.

"It is rather too early at this time to report on sales for the coming year. We believe that the nursery business generally is in a very healthy condition, and especially so in our section of the state."

AT NEWARK, N. Y.

NEWARK, N. Y., May 3—Jackson & Perkins Co.: "It appears as if the weather man of this section had been on our side this spring for the cool weather during April was just what we needed to keep

stock dormant and lengthen out the shipping season. The frost remained in the ground here usually late, we were unable to do much digging before the fourth to the fifth of April, this obliged us to keep our Western and Southern customers waiting awhile for some items, but fortunately we got a pretty complete assortment into our cellars last fall before the winter shut down on us.

"So far as sales are concerned, we are pretty well cleaned up and have nothing to complain of. There appeared to be some slump in prices after midwinter on nearly all lines of stock. It was caused, we presume, by the falling off of retail sales consequent on the remarkably severe weather that prevented salesmen from getting about. From all we can learn, however, the last few weeks of the season were exceptionally good with most of the leading retailers and partly made up for the smaller sales of the winter. We believe that very little stock of marketable sizes was carried over and seen no reason to expect especial surplus in any lines next season."

The National Nurseryman

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 SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

Entered in the Post Office at Rochester, as second-class mail matter.

ROCHESTER, N. Y., JUNE, 1904.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, N. W. Hale, Knoxville, Tenn.; vice-president, Frank A. Weber, St. Louis, Mo.; secretary, George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

Executive Committee—William Pitkin, Rochester, N. Y.; Peter Youngers, Geneva, Neb.; John S. Kerr, Sherman, Tex.

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Committee on Legislation—C. L. Watrous, Des Moines, Ia.; Silas Wilson, Atlantic, Ia.; George A. Sweet, Dansville, N. Y.; William Pitkin, Rochester, N. Y.; E. M. Kirkpatrick, McKinney, Tex.

Committee on Program—J. H. McFarland, Harrisburg, Pa.; Harlan P. Kelsey, Boston; Charles A. Ilgenfritz, Monroe, Mich.

Committee on Publicity—Ralph T. Olcott, Rochester, N. Y.; Orlando Harrison, Berlin, Md.; Prof. W. G. Johnson, New York City.

Committee on Exhibits—R. C. Berekmans, Augusta; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester.

Committee on Cost of Growing Trees—Wilson J. Peters, Troy, O.; W. F. Heikes, Huntsville, Ala.; Theodore Smith, Geneva, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, William Pitkin, Rochester, N. Y.; vice-president, A. L. Brooke; secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, F. H. Stannard, Ottawa, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.

SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.

SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

THE ATLANTA CONVENTION.

All is in readiness for the twenty-ninth annual convention of the American Association of Nurserymen at Atlanta, Ga. The date is June 22-24. The headquarters will be at the Hotel Piedmont, the finest hotel in the South, with convention hall on ninth floor. The railroads have granted a rate of a fare and a third for this occasion.

A large party of eastern nurserymen will start from Rochester at about 7 P. M. on Sunday, June 19th, via the Northern Central railroad, arriving in Washington, D. C., the next morning. Monday will be spent in the national capital. At 10.35 P. M. Monday, June 20th, the party will start, via the Southern Railway, for Atlanta, arriving there at 3.55 P. M. on Tuesday, June 21st. The convention will open at 10 A. M. on Wednesday, June 22d.

The fare from Rochester with this party will be \$30.30, one fare and a third.

Excursions to the great nursery and peach-growing sections of Georgia and Alabama have been planned by the southern nurserymen who have promised a warm welcome to all who attend the convention.

MAY GO TO PORTLAND NEXT YEAR.

A cordial invitation to the American Association to hold the convention of 1905 in Portland, Oregon, is extended by the Pacific Coast Nurserymen's Association. In this issue of the NATIONAL NURSERYMAN are presented strong arguments in favor of holding the convention on the Pacific coast next year. The subject is presented extensively at this time, so that the American Association may consider the invitation at the Atlanta convention and pass upon it intelligently. Mr. M. McDonald of the Oregon Nursery Co., Salem, Ore., is especially delegated by the Pacific Coast association to present the matter before the Atlanta convention. He is the vice-president of the American Association from Oregon. He has extended an invitation to Pacific coast nurserymen generally to join the American Association, and has addressed a letter to each member of the American Association, asking him to signify an expression of his views as to holding the convention of 1905 in Portland, upon the occasion of the Lewis & Clark Exposition.

In a letter to the NATIONAL NURSERYMAN Mr. McDonald says: "I am pleased to tell you that in answer to a circular letter I have sent out to all the members of the National Association I have already, in the last three days, received about fifty replies from nurserymen throughout the entire country, and each and every one expresses himself as favorable toward coming to Portland in 1905. Some few have thought perhaps the other fellow might think it too far away and too expensive to come out here; but they all seem confident that they, themselves, will be able to take the trip, providing we are successful in getting the association with us." It is probable that there will be other invitations to the American Association for its 1905 convention, but it is safe to say that no other effort to secure the convention will be more earnest or more exhaustively treated than is that of Portland's.

PROGRAMME FOR ATLANTA.

The Programme for Twenty-ninth Annual Meeting American Association of Nurserymen, Atlanta, Georgia, June 22, 23, 24, 1904, is as follows:

Wednesday Morning, June 22, 10 O'clock.

Calling to Order.....Vice-President Frank A. Weber, Missouri
 Welcome to Georgia.....Governor J. M. Terrell
 Response for the Association.....C. L. Watrous, Iowa
 Welcome to Atlanta.....Mayor Evan P. Howell
 Response for the Association.....E. W. Kirkpatrick, Texas
 Fraternal Welcome to Peach Growers Association of Georgia...
William Pitkin, New York
 President's Address
 Reports of Secretary and Treasurer
 "Insurance for Nurserymen".....
Report of Committee, by E. Albertson, Indiana
 Discussion by George C. Perkins (New York), William Pitkin (New York)
 Nomination of State Vice-Presidents.

Wednesday Afternoon, 2 O'clock.

Election of State Vice-Presidents
 Reports of Committees—
 On Transportation.....A. L. Brooke, Kansas
 On Tariff.....Irving Rouse, New York
 On Legislation.....C. L. Watrous, Iowa
 "The Cost of Growing Trees".....Harry L. Bird, Michigan
 Discussion by H. S. Chase (Alabama) T. J. Smith (New York)
 W. J. Peters (Ohio)
 "The Last Word on Fruit Picking and Storing". G. Harold Powell
 United States Department of Agriculture
 Discussion by J. H. Hale (Connecticut), J. H. Irvine (Missouri)

Nurserymen are to use the Question Box for introducing subjects of interest. Questions will be received by the Secretary or the Chairman of the Programme Committee until the close of the session of Wednesday afternoon, and these queries will be answered on Thursday.

Wednesday Evening, 7:45 O'clock.

All the papers of the evening session will be fully illustrated by the aid of a stereopticon. As the room must therefore be darkened, members are urged to be present promptly at 7:45. The subjects to be presented are of great practical and pictorial interest.

"American Plants for American Nurserymen".....
Harlan P. Kelsey, Massachusetts
 "The Natural Enemy of the San Jose Scale". Professor C. L. Marlatt
 United States Department of Agriculture
 "Spraying on a Large Scale".....J. H. Hale, Connecticut

Thursday Morning, June 23, 9 O'clock.

Election of Officers
 Selection of place of meeting for next convention
 Appointment of Committees on Exhibits and on Resolutions
 "Nursery Conditions in Georgia".....Charles T. Smith
 Discussion by R. C. Berckmans, John C. Miller
 "The Relation of the Nurseryman to Civic Improvement"....
J. Horace McFarland
 President American League for Civic Improvement
 "The Nurseryman's Label".....John C. Chase, New Hampshire

Thursday Afternoon, 2 O'clock.

"Importing Foreign Nursery Stock".....Hiram T. Jones, New Jersey
 Discussion by Thomas B. Meehan (Pennsylvania), Andre L. Causse (New York), Irving Rouse (New York), E. T. Dickinson (New York)

"The Trials of the Citrus Nurseryman" G. L. Taber, Florida
 Answers to Questions Deposited in Question Box

Report of Committees—

On Exhibits

On Final Resolutions

Announcement of Committees

Adjournment

Meetings of the Protective Associations on Thursday evening.

Friday June 24, 1904.

Excursion of the Association to the peach orchards of Georgia.

Through the energy of former President R. C. Berckmans, an excursion has been arranged, beginning Friday morning, and probably returning to Atlanta in time for the evening trains north on Saturday, June 25. The courtesy of the Georgia railroads to the nurserymen assure the success of this excursion, which will cost the members little or nothing for transportation, and be of the greatest interest and value, as showing the enormous importance of the peach industry in Georgia.

The plan reported by Mr. Berckmans up to the closing of this programme May 25 proposed a departure from Atlanta Friday morning, arriving at the Middle Georgia orchard of the Berckmans Brothers in time for a Georgia barbecue. Macon would be reached Friday evening, and the night spent in one of the most charming old towns of the South.

Leaving Macon Saturday morning, the Fort Valley section will be visited, including the great Hale, Albaugh and Rumph orchards. The return to Atlanta will be direct from this vicinity.

FOR ATLANTA CONVENTION.**CHEAP RATES AND THROUGH SLEEPERS VIA SOUTHERN RAILWAY.**

Nurserymen and their friends going to Atlanta, Ga., to attend the National Convention in June are advised that specially reduced rates will be arranged for this occasion by the railroads interested. Through sleeping cars will be operated from Rochester via the Northern Central to Washington, D. C., thence via the Southern Railway to Atlanta.

For those delegates who come from Ohio, Indiana, Illinois, etc., through sleeping cars will be operated from Cincinnati via the Queen & Crescent Route through Chattanooga, thence Southern Railway. Persons desiring berths in these cars should communicate promptly with Mr. C. L. Yates, Business Manager, at Rochester, or with representatives of the Queen & Crescent Route at Cincinnati, or with L. S. Brown, General Agent, Southern Railway, Washington, D. C., C. L. Hopkins, D. P. A., Southern Railway, Philadelphia, A. S. Thwatt, Eastern Passenger Agent, Southern Railway, 271 and 1185 Broadway, New York, and full information will be furnished.

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HORTICULTURAL LAWS.

Their Relation to the Nurseryman—Restrictions By Legislative Bodies Hamper a Legitimate Business—What Should the Nurseryman Do—Unjust Restrictions.

M. MC DONALD, SALEM, ORE.

An examination of recent horticultural legislation lately enacted in various states and provinces of the United States and Canada bearing directly upon the sale and distribution of nursery products between one state and another, and often between one country and another within the same state, leads one to wonder whether the propagation of nursery products is a legitimate calling, or one that should be classed with gambling and other disreputable business that must be licensed and controlled under police regulations.

If restrictions that have lately been placed upon the nursery business, in the form of horticultural legislation, keep on growing as they have in the past few years, it will be utterly impossible for nurserymen to ship nursery stock beyond the confines of the county in which their nurseries may be located. One would have thought that with the stringent inspection laws that have been imposed upon the nursery business, especially in the Pacific Coast states within the past ten or fifteen years; that horticultural interests would be sufficiently protected without further imposing upon the nursery business additional and unreasonable legislation in the form of laws compelling the nurserymen to give surety bonds and take out licenses for themselves and their salesmen, as is the case in many of the states and provinces of the United States and Canada. If the nursery business is a legitimate one in which honest men may engage, why is it that they are put under such restrictions, while the orchardists that surround them are allowed to have infected and diseased trees, and ship fruit that is not only diseased but infested with insect pests, without any objection being raised by the authorities, and often with their consent and approval. There must be something fundamentally wrong with a law that can single out one particular branch of a business, and the citizens who engage in this particular branch, while others whose goods are just as dangerous, and more so, to the interests of the country, are not subject to any restraint whatever.

PRIMARY OBJECT OF LAWS.

Primarily, horticultural laws were supposed to be enacted

in the interests of horticulture generally, and as a protection to all branches of this industry, but instead of being enforced in the interests of the whole people, the nursery business alone is singled out as the one branch of horticulture in which it is necessary to enforce these horticultural laws, and as a consequence the nursery business often receives great injury from the ignorance and prejudice of horticultural inspectors while the real breeding grounds of disease and insect pests—old orchards, parks and private grounds—are allowed to continue to propagate these diseases and insect pests, regardless of the danger to the nursery that may be located close by, and while the nurseryman is supposed to keep his trees and plants free from disease and insect pests, or the appearance of them, the old orchard goes unchallenged as a menace to his business.

There is not a more careful or painstaking class of men to

be found anywhere than the nurserymen, always trying to grow their trees and plants clean and healthy and free from diseases of all kinds, while the fruit-grower is often allowed to ship his fruit over the entire country indiscriminately, without restraint or inspection; yet the nursery is not allowed to move a single tree or plant until it has been inspected by some person appointed as a horticultural inspector who knows infinitely less about these pests and diseases than the nurseryman does himself.

If it is a misdemeanor for a nurseryman to propagate his trees and plants in a state where scale, or other insect pests may have been found (as would appear from the laws enacted in many states), it ought to be even a greater crime for orchards, and other infected trees, to be allowed to grow and propagate insect pests and diseases in close proximity to a nursery without any action being taken on the part of the inspector

or other horticultural officer, as is too often the case, thus endangering the very existence of the business that has been compelled to bear the whole burden of horticultural laws.

In studying this question, we ask why are these things so? Any honest, intelligent man who will study the question carefully must admit that nurserymen have been unjustly dealt with in the enactment and execution of horticultural laws, and why? Probably because the formation, enactment and enforcement of such laws have been left largely to politicians and office-holders, while the fruit-grower and nurseryman, the parties most interested in this subject has been content to sit back and leave the enactment of such laws to men who do not know anything about the require-



M. McDONALD, SALEM, ORE.

Vice-President American Association of Nurserymen.

ments of such legislation, and care less, for the business of the citizens who may be engaged in it.

As a protection to his business, shall the nurseryman attempt to have these laws entirely expunged from the statute books, or will it be wiser for the nurserymen to organize so that they may guide legislation in the future and see that horticultural laws are enacted, and those already enacted remedied so that horticultural interests be amply protected and no branch of the business injured thereby. The nurserymen should see to it that not only the horticultural laws are remedied, but that they are so constructed that all orchards, fruit parks and private grounds, and other places of danger to the propagation of diseases and pests are inspected and kept clean, and that the same laws, rules and regulations are applied to these places as are applied to nurseries. How can nurserymen be expected to have clean trees and plants when orchards surrounding them are infected with all manner of diseases and pests? When the horticultural authorities see to it that parks and permanent trees are kept clean and free from diseases and insect pests, there will be but very little call for a nursery inspection, for there will then be no source from which the nurseryman's trees and plants can be infected.

That much good has already come from horticultural laws no intelligent nurseryman will dispute, and we do not think that anyone would want to go back to the old slipshod method of doing business, but we do believe that nurserymen should be accorded the same treatment and have the same protection as others, and the same rules and regulations which are applied to the nurserymen should also be applied to orchardists and those having dangerous or infected trees and fruit.

In order to accomplish this end and receive justice, the nurserymen of the country must organize, and this can probably best be done through the National Association, and in such a manner that all laws bearing upon their business will be reviewed and bills brought before the various legislatures modifying and reconstructing present laws so that they will work in harmony, fairness and justice to all concerned. This can only be done by a strong, permanent organization that will be prepared at all times to take hold of legislation when bills are about to be presented to states' legislatures; for so long as the nurserymen of America allow the office-holder, and those who live off the prosecution of these laws to formulate and pass them through the legislature, so long will they be made to bear unjustly upon the nursery interests, and the only relief is for the nurserymen to organize and see that these bills when they come before the various legislatures are prepared in such a manner that they can be honestly and fairly enforced, and that protection which is necessary be given to all the parties interested.

UNJUST REGULATIONS

It is quite useless for an individual nurseryman to attempt to fight horticultural authorities when he has been unjustly dealt with, for as a rule a horticultural officer is not financially responsible himself, and we do not know of a single case where the state compels such an officer to be under bond, although they are often clothed with authority to condemn and destroy the property of a nurseryman.

No man should be given such authority that he can enter upon the property of another and condemn and quarantine such property, and in this way virtually destroy it, without being under bonds so that he may be held responsible when he condemns such property on account of ignorance or prejudice, and it should be very easy for the nurserymen to impress upon the state legislative bodies the importance of placing all horticultural officers and inspectors under heavy bond so that the interests of not only the nurserymen, but of the fruit-growers as well, would be amply protected from ignorant and unscrupulous men. Not until the nurserymen enter the field of state legislation and insist upon laws being enacted that are fair and just; and that inspectors and horticultural officers are put under bonds will they ever receive strict justice.

THE RUSSELLVILLE NURSERY CO.

RUSSELLVILLE, Ore., May 17— "What is now the Russellville Nursery Co. started business with one acre of nursery stock in 1892. Times were hard and the prospects for any rapid growth of the business were anything but encouraging. Nevertheless the business of the concern grew year after year, each year seeing a more rapid growth than the year previous until now it has about sixty-five acres in trees, besides packing sheds, healing grounds, etc.

The Russellville Nurseries are located at Russellville, Oregon, a suburb of Portland, six miles from the center of the city. The location is all that could be asked, as Portland is the shipping center of the Pacific Northwest, by water and by rail, and all parts of the Pacific Northwest can be reached from the Russellville Nurseries without the necessity of transferring bales or boxes.

The location from the view of a propagator is first-class. The nursery stands out in front of the great gorge of the Columbia river and owing to the cold easterly winds that pour through that gorge in the fall of the year, stock ripens up in good condition for digging early enough to make shipments of trees in first-class condition, far inland and into high altitudes before winter sets in. Nursery stock ripens up earlier in this locality than any other west of the Cascade mountains.

The soil is a loose, half gravel, clay. It is not what most men would call "rich land," but contains all the properties necessary to the quick, healthy and sturdy growth of young trees, shrubs and plants. Greenhouse men, florists and gardeners all agree that there is a smaller percentage of loss of young plants, shrubs and trees propagated here than in any other part of the United States.

SUNRISE NURSERIES.

MONTAVILLA, Ore., May 9—A. Freeborough: "The nursery business with me has been very satisfactory during the past year. Of course my business in that line is quite small, yet I am somewhat in touch with nurserymen generally, and think those in the business are generally prosperous. The long-continued rainy weather has been very bad for us and the season's work is backward, yet with a continuance of the present fine weather think we will come out all right.

"I am pleased to report that cherry and pear seedlings are doing fine, also currant, gooseberry, Logan-berry, black-berry stock, etc."

O. K. GERRISH RETIRES.

O. K. Gerrish, of Lakeville, Mass., where of late years he has grown apple trees extensively, and Geneva, N. Y., where he has grown pears, plums, etc., and where his cellars and packing grounds and headquarters for packing and shipping have been located, has been engaged in a very extensive retail nursery business, continuously for thirty-seven years, having without doubt sustained for this length of time the largest volume of business of any man, not having a partner, nor being associated with any company, in the country.

Owing to ill health and advanced age, Mr. Gerrish has disposed of his entire business to Brown Brothers Co., of Rochester, N. Y., who assumed control of same on the first instant.

AT RIVERSIDE, CAL.

RIVERSIDE, Cal., May 10—Chase Rose Company: "While the whole world watches with interest the map-making maneuvers in the far East, residents of the Pacific coast are not allowing grass to grow under foot in any vocation. To this part of our land it means more than "map making," for evidence of vast developments are to be seen at all points and some have grown quite noted. Pacific coast is noted for its roses, and one proof of their superiority is exemplified in the quantities of field-grown-bushes now supplied by the Chase Rose Company of Riverside, Cal., and favorably known to the trade throughout our entire land.

This stock is grown seventy miles from the ocean where the conditions are quite arid, making hardy bushes under a hot sun, with wonderful flowering qualities.

"Open-air rose displays are often marvelous, even to the older inhabitants, and all of the irrigated portion of California abounds with unique and novel conditions not seen where moisture—other than supplied by canals—is more abundant."

LAYRITZ NURSERY.

VICTORIA, B. C., May 9—R. Layritz: "This season's business has been by far the best we have experienced; sales increased probably more than 100% since last year with prices very satisfactory for first-class stock. Outlook for next season is very encouraging as the ever-increasing demand for fruit in the great Northwest is offering an excellent market for all well grown and well put up products of our orchardists."

SYCAMORE GROVE NURSERIES.

LOS ANGELES, Cal., May 14—J. E. Saint: "I am glad

to say that, taking everything into consideration, the past season's business has been very good in my section. The lack of rain during the early part of the season made things look a little black but they have picked up wonderfully.

"The outlook for the future is quite bright as I look at it. This section is building up extensively and the demand for ornamental stock is and will be quite heavy for some time to come."

MAXWELL NURSERIES

NAPA, Cal., May 11—"Owing to continuous rains for over nine weeks during the latter part of the winter, this has not been a very prosperous reason for this end of the coast, although in the early part of the season—December and January—business was good.

"As for the future, I do not look for any very great extensive planting of trees. While there will always be a demand for fillings in there will not be much acreage planted. Of course there will be spasmodic demands for certain varieties, as this season for prunes and cherries. If there are good prices for certain kinds of fruit it will make a demand for that kind of tree the following season."

COX SEED COMPANY.

SAN FRANCISCO, May 11—"Business has been very good with us this year, especially in the ornamental line. The indications are that the nursery business is going to have a boom in California. Prices are good and we are exponents of keeping up the price of everything in our business.

We do not believe people will buy any more because they get it cheaper. We have always found that a cheap article is never appreciated as much as when a reasonable amount is paid for it."

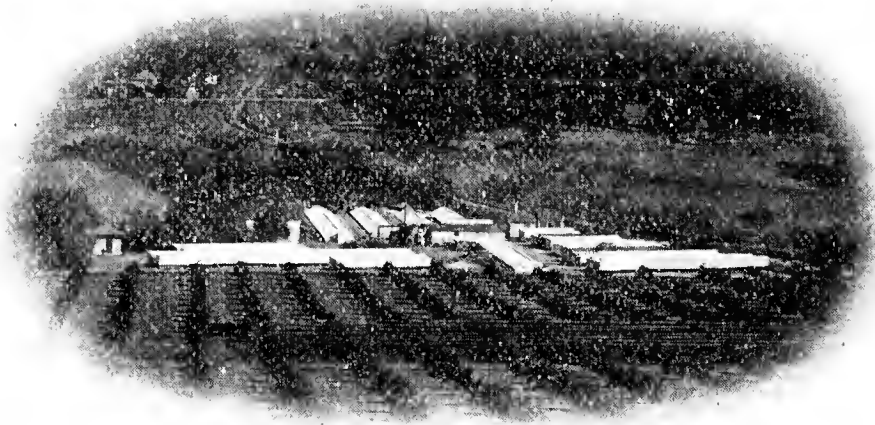
REDLANDS NURSERIES.

REDLANDS, Cal., May 16—E. I. Martin: "With me the season's business for 1903 was very satisfactory in orange and lemon trees, prices and plantings being higher than for several years with the exception of 1902.

"In deciduous stock the business was only fair, and prices ruled somewhat low. The season of 1904 for the deciduous business has only been fair as the season was dry until March and retarded planting, and prices have only been fair. In orange and lemon trees there will be the usual planting."

THE VALLEY NURSERY.

WOODBURN, Ore., May 8—T. M. Hicks: "The past season has been a very prosperous one and in my retail business the demand has been far greater than the supply. I have cleaned up everything in the tree line this season. I have now booked some twenty-five thousand trees for next fall delivery and think the prospects are good for several years to come."



CHASE ROSE COMPANY'S PLANT, RIVERSIDE, CALIFORNIA.

A BUMPER PEACH CROP.

**J. H. Hale, the Peach King, Extends a Cordial Welcome to the Nurserymen Who Visit Atlanta and Fort Valley—
Greatest Crop on Record.**

Editor NATIONAL NURSERYMAN:

Last year when the Nurserymen's Association voted to come to Atlanta in June 1904, they were promised a great sight in the Georgia peach orchards, "if" there should happen to be a fruit crop in 1904. That "if" does not stand in the way, for Georgia now has on the trees the greatest crop on record, fully 5,000 carloads of superb fruit to be harvested between June 15th and August 1st; and the date of the convention in Atlanta has been arranged, so as to be able to visit the leading peach sections of the State, about Fort Valley and Marshallville right in the height of the Waddell and Carmen season. And if present prospects now hold good, there will be a chance to see more peaches than were ever in the world before centered in one locality.

The railroad people plan some splendid excursions, free to the members of the association, and there is now no doubt of a grand time for all who come.

I may be too busy in the orchard to spend much time at the convention, but "the boys" can all be assured of a warm welcome and a ripe peach or two when the special train runs into the Hale orchard, even though we may be too crowded with work, to show the attentions I would wish.

J. H. HALE.

Fort Valley, Ga., May 24, 1904.

WASHINGTON NURSERY COMPANY.

TOPPENISH, Wash., May 16th: "This being our first year, we cannot make comparison with the business of former years, but we have far exceeded our expectations of one year ago and have disposed of all of our salable stock.

"Prospects for the coming year seem to be very encouraging and the outlook for good sales is bright. Agents are reporting nice business and we expect to increase our business greatly over the past year."

ALBANY NURSERIES.

ALBANY, Ore., May 21—Albert Brownell: "Our past season's trade has been the largest since commencing business at Albany over fifteen years ago, and the prospect for next year seems equally good. Prices have generally been well maintained and we think will continue to be for the coming season.

"The growing season was a month behind April 1st, but unusually warm weather the first half of April brought every thing forward with a rush, so that stock attained its usual stage of growth. Buds and grafts made a nice growth, the soil is in good tilth and every indication points to a fine growth."



ALBERT BROWNELL, ALBANY, ORE.

Long and Short.

W. C. Reed, Vincennes, Ind., offers fruit and ornamental stock for fall of 1904.

One year cherry and other stock may be had of H. M. Simpson & Sons, Vincennes, Ind.

The new blackberry, Himalaya Giant, is offered for fall delivery by Albert Brownell, Albany, Ore.

Charles Zeimer, of Hollywood, Cal., has purchased 160 acres and will start a nursery at Gladwin, Mich.

A complete line of fruit and ornamental nursery stock is offered by J. H. Settlemyer & Son, Woodburn, Ore.

A full line of imported stock is listed in another column by McHutchison & Co., 218 Fulton Street, New York City.

Dorothy Perkins, the new pedigreed climbing rose, may be had in quantity from Jackson & Perkins Co., Newark, N. Y.

The Western Fruit Grower of St. Joseph, Mo., will be represented at the Atlanta convention by Messrs. Campbell and Irvine.

A. L. Brooke, North Topeka and Grantville, Kan., offers apple and Japan pear seedlings and a fine lot of one and two-year apple.

Apple and pear seedlings, apple, peach and cherry trees, Keiffer pear and ornamental stock may be had of Peters & Skinner, North Topeka, Kan.

The Fresno Nurseries, F. H. Wilson, proprietor, at Fresno, Cal., offers the largest stock of fruit trees and grape vines west of the Rocky Mountains.

Cypress greenhouse material, ice clearing eave plate, cast iron gutters, etc., can be had of the Lord & Burnham Co., Irvington-on-Hudson, N. Y.

Goodwillie Brothers, 407 N. Y. Life Bldg., Chicago, sell lumber for boxing sized, cut to lengths wanted, and ready to nail together. Special prices on car lots.

Grape vines, peach trees, Carolina poplars and walnuts are grown by the Chico Nursery Co., Chico, Cal., the largest growers of this stock on the Pacific coast.

For more than a quarter of a century A. Miller & Sons, Milton, Ore., have been selling nursery stock from the garden spot of the Walla

Walla valley. They carry a complete stock.

Rambler and other climbing roses on own roots are a specialty with the Oregon Nursery Co., Salem, Ore. Mr. McDonald will discuss them with nurserymen at the Atlanta convention.

Hardy Holland roses grown at Boskoop, Holland, by C. Van Kleef & Co., are offered by the American agent, C. H. Joosten, 201 West Street, New York, who will be at the Atlanta convention.

ECKERT FRUIT COMPANY.

DETROIT, Wash., May 4—"Considering that very few deem it possible to grow the grape in the Pacific Northwest and that it requires greater effort to get anyone even to try to grow them, our business as specialists in grape nurseries has been very satisfactory and while not enough to support one in this business alone, in connection with fruit growing it is quite a success and in time as it becomes well known that grapes can be grown here, it will become a profitable occupation.

"Our vicinity is ideal for the cultivation of large fruits, and large plantings of trees and vines are constantly being made."

LEWIS-CLARK EXPEDITION.

*Prediction of Jim Bridger, Famous Scout, Fulfilled—Millions of People in the Western Division—Room for Many More—
Brief History of the Expedition—Henry E. Reed.*

In 1866, a conference was held with Indians at Fort Laramie, Wyoming, for the purpose of signing a treaty. Sioux, Cheyennes and Araphoes to the number of 16,000 assembled to meet the representatives of the United States Government, and among them were several chiefs who had never before spoken to a white man. With the whites who attended the council was Jim Bridger, famous in western pioneer history, whose trading post, built in Southwestern Wyoming in 1843, marked the beginning of the era of immigration into the Far West. Spotted Tail was the first to speak for the Indians. Half in sign language and half in Sioux, he said, referring to the Oregon trail, which the pioneers followed to the Pacific Coast:

"We rented this trail along here to our Great Father at Washington for fifty-five years, so his people could travel West to the ocean. But they must quit going north into our best game country, or we will rub them all out!"

Three times the pipe of peace was passed round and there was no response. The Indians were becoming impatient, and Standing Elk demanded: "Why does not the white man answer Spotted Tail?"

The only answer this time was the steady pattering of Jim Bridger's army brogans against a plank as he measured off the tread of a company of infantry.

Man-Afraid-of-his-Horses now spoke for the Indians: "Why does the white man treat us with silent contempt?" he asked. "What means the tramp of the foot of that man who has always been our most inveterate enemy?"

Bridger rose to his full height and towered above every man in the council room except Red Cloud. Waving his hand towards the Laramie river, he said: "Indian Chief, the pattering of the feet you heard is the tramp of the millions that are coming, and you can no more stop them than you can stop this river flowing past this fort to the sea!"

EARLY SETTLERS

Before Jim Bridger, were the trappers, pioneer settlers and missionaries who made their way to the Willamette Valley and organized at Champoeg, Oregon, in May, 1843, the first republican government west of the Rocky Mountains. Before these, were the overland Astorians, sent out as part of John Jacob Astor's enterprise to found an American trading post on the Pacific Ocean. Before the overland Astorians were Lewis and Clark, and before Lewis and Clark was Captain Robert Gray, who discovered the Columbia river in 1792. It is Lewis and Clark, their heroism and achievements, that this story concerns.

Long before Captain Gray discovered the Columbia river, and indeed before the ink was hardly dry on the treaty which made the United States a sovereign nation, Thomas Jefferson conceived the idea of an American settlement on the northwest coast of North America. To George Rogers Clark, whose capture of old Vincennes on February 25, 1779, forms one of the most brilliant exploits in military history, was

offered the leadership of such an expedition. Writing from Annapolis on December 4, 1783, Jefferson told Clark that a large sum of money had been subscribed in England for exploring the West from the Mississippi to California. Nothing, however, came of the offer to George Rogers Clark.

When Jefferson became President, he was in position to put into execution his long-cherished plan for exploring the country between the Mississippi River and the Pacific Ocean. An expedition was organized in 1803 and placed under the command of Meriwether Lewis and William Clark, a younger brother of George Rogers Clark. The winter of 1803 was spent on the east side of the Mississippi in Illinois. Clark remained in charge of the camp while Lewis recruited men for the trip at Cahokia and Kaskaskia, the very points where George Rogers Clark gathered his force for his famous march on Vincennes, 25 years before.

THE START.

All preparations having been made, Lewis and Clark started westward, May 14, 1804. Their route lay up the Missouri River from St. Louis. The first winter was spent at Fort Mandan. In the spring of 1805 the journey was resumed to the headwaters of the Missouri in Southwestern Montana. Crossing the Continental Divide on August 12, 1805, the party passed from the Louisiana Territory into the Oregon country and, after many days of hazardous traveling, reached the Columbia River and descended it to the Pacific Ocean. The winter of 1805 was spent in what is now known as Clatsop County in Northwestern Oregon. In March, 1806, the return trip was begun and St. Louis was reached in September.

Such is briefly the history of the Lewis and Clark Expedition. Its effect has been far reaching, for it inaugurated a period of expansion that has not yet ended. It clinched the title of the United States to the 307,000 square miles comprising the Oregon country, which had previously rested solely upon the discovery of the Columbia River by Gray. It gave the United States its first footing on the Pacific Ocean, and with the subsequent acquisition of California, Alaska, Hawaii, the Philippines and Guam, rounded out Uncle Sam into the fullness of a world power. One other important point in favor of the Oregon exploration should be emphasized. The Lewis and Clark expeditions and the events that led up to it were as surely the beginning of all American expansion as Jefferson was the first and greatest of all American expansionists.

THE CELEBRATION

The Lewis and Clark exposition will celebrate the 100th anniversary of the exploration of the Oregon country by the explorers whose names give it title. It will show the material progress of the Great West and the relation of the entire country to the constantly increasing trade of Asia and Oceanica. It is the Oregon country's exposition, whether considered from the patriotic or the material viewpoint. It is as much the exposition of Washington, Montana, Idaho and Wyoming as it is of Oregon. The interest of all is identical, for all in whole or part comprised the geographical division, the acquisition of which established the United States on the Pacific Ocean and made it a world power.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1904, AND SPRING, 1905

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

Clematis! Clematis!

We have a large number of them that must be sold for next Fall delivery. Two-year old field grown, strong, healthy plants. Write for prices that will meet the sharpest competition.

P. W. BUTLER & CO., Penfield, N. Y.

PECAN TREES AND NUTS.

BUDDED, GRAFTED and SEEDLING TREES. Twenty-seven Varieties. Trees in sizes from 6 inches to 6 feet and over. Wholesale and Retail.

ONE, TWO AND THREE YEAR OLD TREES.

A visit to our Groves and Nurseries will interest you. 700 acres in Pecans. Illustrated catalogue sent on application.

The G. M. Bacon Pecan Company, Inc.,
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OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings. Apple Scions.*

A good assortment of Grape Vines, Gooseber-
ries and Currants. Also Ornamental Trees
and Shrubs

Dreer Specialties in Hardy Plants

Hardy and Tender Water Lilies and Nelumbiums. Most extensive collection, including all the standard varieties as well as a complete assortment of American and French novelties.

Hardy Perennial Plants

Most extensive collection in America.

Japanese Anemones, Aquilegias, Hardy Asters, Campanulas, Hardy Chrysanthemums, Delphiniums, Helianthus, Hemerocallis, Double Hollyhocks, Iris, Paeonias, Phlox, Pinks, Poppies, Primroses, Stokesia, Rudbeckias, Tritoma Pfitzeri, etc.

Hardy Vines

Ampelopsis, Akebia, Aristolochia, Clematis, Ivies, Wisterias, etc.

Roses

A most complete list of Hybrid Perpetual and Everblooming varieties. Our Roses have been all potted during the winter, stored in cold houses, consequently can be shipped until late in the season.

The New Blue Conifer, Retinispora Sanderi

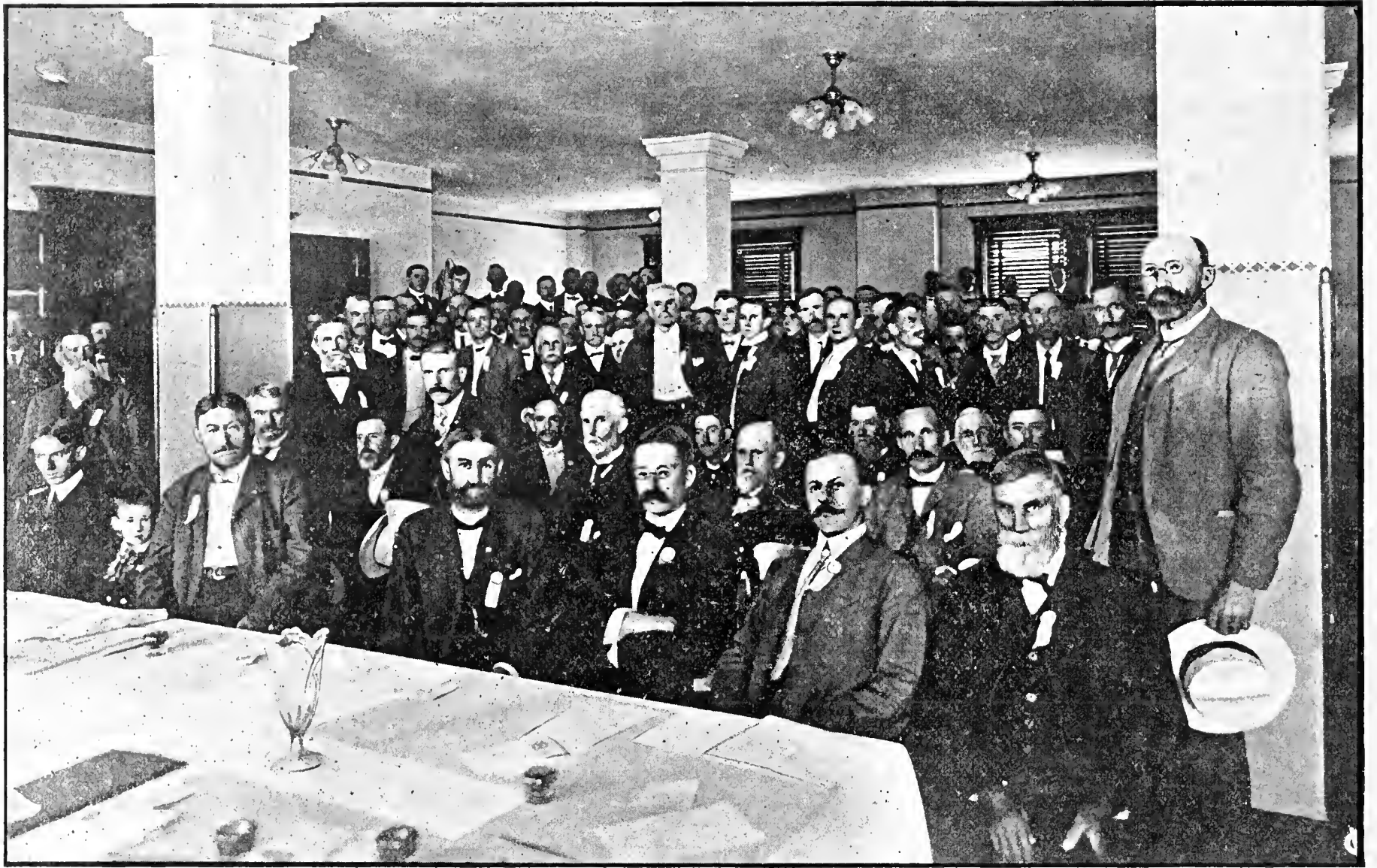
A most important addition to the list of Evergreens.

Rhododendrons, Hardy Azaleas, Hydrangea Paniculata Grandiflora.

For a complete list of Hardy Plants as well as for a full line of Decorative Florists' Stock such as Palms, Ferns, Rubber Plants, Pandanus, Summer Flowering Bulb, etc., see our Quarterly Wholesale List which is mailed free to the trade on application.

HENRY A. DREER, Philadelphia, Pa.

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MEMBERS OF AMERICAN ASSOCIATION OF NURSERYMEN IN CONVENTION, AT PIEDMONT HOTEL, ATLANTA, GA., JUNE 22-23, 1904

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"The American Association could do much by concerted effort." - N. W. HALL.

Vol. XII.

ROCHESTER, N. Y., JULY, 1904.

No. 7.

AMERICAN ASSOCIATION.

PROCEEDINGS OF THE TWENTY-NINTH ANNUAL MEETING OF THE NURSERYMEN'S NATIONAL ORGANIZATION.

**More Than Two Hundred Present — Important Reports on Insurance and Transportation Matters—Financial Reports—
New Insurance Committee—E. W. Kirkpatrick the
New President—His Address—New Standing Committees—At West Baden
Springs, Ind., Next Year.**

The twenty-ninth annual convention of the American Association of Nurserymen was held under most favorable circumstances at the Piedmont hotel, Atlanta, Ga., June 22-23. The attendance was larger than many had expected, the number reaching considerably more than 200. Accommodations at the Piedmont hotel were ample and convenient and the convention hall was easily accessible.

It was regretted by all that President N. W. Hale could not be present. His representative, K. Morton of Richmond, conveyed his regret at not being able to attend the meeting. It was explained that when the date of the convention was fixed for June 29 and 30 and July 1, he engaged to go to the republican convention in Chicago during the week of June 19. Then when the Association dates were changed, they conflicted with his previous arrangements. He sent his annual address, however, which was read by Mr. Morton. Just before the convention was called to order the vice-president, F. A. Weber, became too ill to preside, and C. L. Watrous, of Iowa, was called upon to conduct the proceedings. This he did with despatch and to the entire satisfaction of all.

Owing to the opening of a legislative session at the capitol, Governor Terrell was unable to make an address of welcome as was promised, but Mayor Evan P. Howell, of Atlanta welcomed the nurserymen to the city in a most felicitous manner. He and Captain Watrous exchanged courtesies relating to the Civil War, they having fought on opposite sides. Mayor Howell said he believed that the convention of the American Association of Nurserymen would be of more service to the State of Georgia than any other that had been held in Atlanta since he was mayor. He referred to the rapid growth of the fruit industry of Georgia and hoped that nurserymen would gain information during their stay that would be of mutual benefit.

E. W. Kirkpatrick, of McKinney, Texas, responded to the mayor's address in a most appropriate manner, in behalf of the Association.

Secretary George C. Seager reported receipts as follows: Membership, \$822; advertising, 1903 report, \$193.50; advertising, badge book, 1904, \$5.18; total, \$1,563.50. Disbursements, October 28, 1903, C. L. Yates, treasurer, \$380; June 15, \$1,165.80; exchange, \$17.70; total, \$1,563.50. He showed the increase in the receipts since 1891 as follows: \$1,120, \$1,050.05, \$1,123.20, \$1,007.30, \$1,143.24, \$1,161.97, \$1,262.95, \$1,345.81, \$1,459, \$1,499.95, \$1,563.50.

Treasurer's Report.

Treasurer C. L. Yates presented the following report:

RECEIPTS.

1903			
June 8th	To balance cash on hand	\$2,528	16
" 22nd	Refund from Mich. Pass. Association	6	
Nov. 2nd	George C. Seager	380	
	Interest to June 30th, 1903	28	
	Interest to Dec. 30th, 1903	32	36
1904			
June 15th	George C. Seager	1,165	80
		\$4,140	32

DISBURSEMENTS.

1903			
June 16th	George C. Seager, salary and clerical work	\$325	
" "	George C. Seager, mailing circulars, etc.	32	35
" "	C. L. Yates, salary and postage	50	50
July 9th	Union Advertiser Co., Printing	246	23
" "	George C. Seager, express charges	60	
" "	The Whitehead & Hoag Co., Badges	1	87
" "	Prof. L. H. Bailey, expense to Detroit	33	20
" "	H. W. Collingwood, expense to Detroit	34	50
" "	J. B. Smith, expense to Detroit	45	05
" 10th	The Whitehead & Hoag Co., Badges	28	21
" 15th	Miss E. Jacobson, report con. and railroad fare	61	00
" 27th	J. H. McFarland, Letterheads and Envelopes	5	75
Oct. 9th	Union & Advertiser Co., Proceedings, etc.	385	97
" "	Exchange on Mich. Pass Association	10	
Nov. 11th	W. W. Morris, 500 Letterheads	2	75
" "	Union & Advertiser Co.	24	00
1904			
Jan. 19th	M. E. Wolff, Bond for Treasurer	18	75
June 15th	George C. Seager, Expense and Postage	2	40
	Balance on hand	2,842	09
		\$4,140	32

Committee Reports.

E. Albertson, of Indiana, presented the report of the committee on insurance which appears in another column.

The chair appointed as auditing committee, Messrs. Brown, of Nebraska; Chatten, of Tennessee, and Henry, of New York, who reported that the accounts of the secretary and treasurer were correct.

M. McDonald, of Salem, Ore., made a strong plea, at this point, in favor of holding the next convention in Portland, Ore., advancing the arguments presented in the June issue of the NATIONAL NURSERYMAN and also invitations from

the mayor and board of trade of Portland and the Pacific Coast Nurserymen's Association.

An interesting address was delivered by Prof. John Craig, of Cornell university.

As committee on exhibits the following were appointed: Prof. John Craig, of New York; Thomas B. Meehan, of Pennsylvania; Peter Youngers, Nebraska.

J. Horace McFarland, of Harrisburg, Pa., discussed "The Relation of the Nurserymen to Civic Improvement." Mr. McFarland is the president of the American Civic Association.

State Vice-Presidents.

Vice-presidents for states were chosen as follows at the opening of the session on Wednesday afternoon, June 22: Alabama, John Fraser; Arkansas, George W. Scruggs; Colorado, George J. Spear; California, Charles Howard; Connecticut, Edwin Hoyt; Delaware, E. S. Collins; Georgia, R. C. Berekmans; Illinois, Irving E. Spalding; Indiana, W. C. Reed; Iowa, D. Lorton; Kansas, E. P. Bernardin; Kentucky, F. N. Downer; Indian Territory, J. A. Taylor; Maryland, C. N. Peters; Massachusetts, H. P. Kelsey; Michigan, Charles A. Ilgenfritz; Minnesota, E. A. Smith; Missouri, W. P. Stark; Nebraska, George Marshall; New Hampshire, John C. Chase; New Jersey, Hiram T. Jones; New York, Theo. J. Smith; North Carolina, J. Van Lindley; Ohio, S. R. Fergus; Oregon, M. McDonald; Oklahoma, J. A. Lopeman; Pennsylvania, Earl Peters; Tennessee, C. O. Fowler; Texas, John F. Sneed, Utah, John Watson; Virginia, W. T. Hood.

Mr. Watrous as member of the committee on legislation said: "The nurserymen in Rochester, N. Y., are opposed to a federal bill. The congressman from Rochester told us that he would have to oppose the measure unless we could get the consent of the nurserymen in his district to release him from his promise to do so. There was no time to do that, so our hands were tied. As to legislation in the states it was reported to us that some of the laws were undoubtedly unconstitutional. A part of the committee met in Rochester and examined the laws of Virginia, West Virginia and Michigan. I had a letter from Mr. Pitkin saying no litigation had been started. He said he would send me a report of what had been done, but no such report has reached me. I may receive it in time to have it printed in the official proceedings. We also asked the state vice-presidents to notify us of any adverse legislation. As none has done so, we regard no news as good news in this case."

Discussion of Freight Rates.

E. Albertson presented the report of the committee on transportation which was regarded as one of the most important documents before the convention. It is presented in this issue.

John S. Kerr, Sherman, Texas, referred to the importance of this subject. He said: "Rates have been raised on local as well as carload shipments, and with no notice until we came to pay the bill. It does seem to me that the various nurserymen's associations should act in this matter. The railroad companies will be influenced by united action on our part. Things are getting irregular and need adjustment. The report of the committee shows good work. We should continue the committee and lend our assistance."

M. McDonald, Salem, Ore., said: "The Pacific Coast

Association of Nurserymen at its meeting at Hood River, Ore., on June 1st passed a resolution relating to this matter and appointed a committee to meet the western classification committee at Manitou, Colorado, on July 8th. P. A. Dix, of Salt Lake City, will present the matter for us. We would like to work in connection with the American Association. It is a subject that interests us all to a great extent. Something should be done now."

W. T. Hood, Richmond, Va.: "The nurserymen should be particular to have the rates stated on every shipping bill. This would save much trouble."

C. L. Watrous: "We certainly should take prompt action. If Mr. Brooke is not able to act on the committee, we should appoint a new chairman."

G. Harold Powell, Washington, D. C.: "We have more trouble to get a carload of fruit to the seaboard than to get it across the ocean."

N. H. Albaugh discussed the importance of quick work in handling peaches. James M. Irvine talked of cold storage of fruits following the reading of a paper by G. Harold Powell upon this subject. J. H. Hale also talked on this subject.

On Wednesday night there were interesting lantern slide lectures by Harlan P. Kelsey, Wilmon Newell and J. H. Hale.

Meeting Place and Officers.

The report of the state vice-presidents on the next place of meeting and nominations of officers was presented on Thursday morning. John C. Chase, of New Hampshire, was the chairman of the vice-president's meeting, and Harlan P. Kelsey, of Massachusetts, was secretary. It was reported that Mr. McDonald suggested Portland, Ore., as the next place of meeting. Mr. Ilgenfritz argued in favor of Chicago and Mr. Selly of the Baltimore & Ohio railroad, in favor of West Baden Springs, Ind. There were eight votes for Portland, thirteen for Chicago, two for West Baden Springs and two scattering votes. The vice-presidents therefore recommended to the convention that the next place of meeting be Chicago.

The following list of officers was recommended:

President—E. W. Kirkpatrick, McKinney, Tex.

Vice-president, C. L. Watrous, Des Moines, Ia.

Secretary—George C. Seager, Rochester, N. Y.

Treasurer—C. L. Yates, Rochester, N. Y.

Executive Committee—Peter Youngers, Geneva, Neb.; M. McDonald, Salem, Ore.; George A. Sweet, Dansville, N. Y.

The Association promptly elected the officers as recommended.

Upon the subject of next place of meeting there was discussion. Mr. McDonald moved to substitute Portland, Ore., for Chicago. The motion was seconded by Orlando Harrison, of Berlin, Md., but it was lost by a viva voce vote. A division of the house was called for and the vote resulted: Ayes, 40; nays, 52.

E. Albertson, Bridgeport, Ind., then moved to substitute West Baden Springs, Ind., for Chicago. He said the place is equally as central as Chicago, can be easily reached by rail, and excellent hotel accommodations can be had for from \$2.50 upwards. Mr. McFarland, Mr. Berekmans, Mr. Miller, of Georgia, Mr. Reed and Mr. Van Lindley seconded the motion. Mr. McDonald said that inasmuch as the Association had decided not to go to Portland he would

favor West Baden Springs. The decision to meet next year at West Baden Springs was made almost unanimously.

Upon motion of Mr. McFarland it was the sense of the convention that the invitation of the Pacific Coast Association of Nurserymen was duly appreciated and the Association thanked the western body for its courtesy and its hearty expression of good will and hospitality; that only the distance and the disadvantages of holding a convention where a great exposition is in progress, deterred the American Association from going to Portland next year.

Upon motion by Mr. Kelsey it was the sense of the meeting that the state vice-presidents use every effort to further the interests of the Association in their respective states by securing new members for the Association and by actively representing the Association in their territory.

Mr. Albertson suggested that committees be appointed to confer with the western, eastern and southern classification committees of the transportation companies regarding freight rates and to report at the next annual convention. His motion that three committees of two members each be appointed for that purpose and that the Association committee of three members on transportation be continued; the members to be named by the new president, was adopted.

Insurance Committee.

Mr. Albertson asked for instructions regarding the insurance question. Upon motion of Fred A. Green the chair appointed the following special committee to consider the subject further: E. Albertson, George M. Peters, J. H. Dayton and C. A. Ilgenfritz.

Upon motion of Mr. Kelsey of Massachusetts, the president was requested to appoint a committee to edit the proceedings of the convention for publication. He said much of the verbatim report need not be printed at the expense of the Association.

Mr. Henry, of Nebraska, reporting on President N. W. Hale's address suggested that the appropriate portions be referred to the committees on legislation and transportation. It was also suggested that inasmuch as the finances were in good condition the membership fee be not raised as had been proposed. The secretary was asked to provide a book in which to record the deaths of members of the Association, and the secretary requested that full information be sent to him in case of a death.

The committee on final resolutions, J. H. Dayton and John S. Kerr, tendered the thanks of the Association to the mayor of Atlanta, the nurserymen and fruit growers who had entertained the Association, the railroads for courtesies extended, and the press for its reports. The death of Z. K. Jewett, of Sparta, Wis., was deplored and a page of the minutes was set aside in his memory.

President Kirkpatrick's Address.

President Kirkpatrick was called for. He responded in a speech ringing with enthusiasm for the work of the nurseryman. He thanked the Association for the honor which had been conferred upon him. He said that with the sympathy and co-operation of the members he could accomplish something for the organization. "We should remember," said he, "that in all such bodies the burdens are likely to fall

heaviest upon a few but; that there is work for all to do. No band of men is engaged in a more important work than ours. No other body of men does so much to advance the welfare of the country as does this Association whose members are fruit makers and advisors to the planters of mammoth orchards. You are homemakers; you make the wealth and health of the land. You are ministers to preach the gospel of horticulture. It is a grand duty, a great work. You are manufacturers and distributors of plants, both producing and consuming. You must be among the best of all men. This is an opportune time to do business. We are in a flood of prosperity. We have the richest market in the world. We are a people that live, know and do better than any other. He that is the humblest ought to be as proud as the highest. Let us be riveted together in this work. When we are addressed by the secretary and the other officers let us be ready to respond. Let us answer the roll call and be there. I thank you for your honor."

Mr. Preston moved that the Georgia papers be asked to publish President Kirkpatrick's speech. The secretary was instructed to note in the proceedings the facts brought to the attention of the nurserymen during the excursion to the peach orchards, regarding the number of trees grown, etc.

In an eloquent speech, Mr. Smith, of Concord, Ga., invited members of the Association to meet with the Southern Nurserymen's Association at Asheville, N. C., August 17-18.

Standing Committees.

President Kirkpatrick announced the following standing committees, after which the convention adjourned to meet at West Baden Springs, Ind., on the second Wednesday of June, 1905:

Transportation—E. Albertson, Bridgeport, Ind.; M. McDonald, Salem, Ore.; H. B. Chase, Huntsville, Ala.; Thomas B. Meehan, Dresher-town, Pa.

To Meet Western Freight Classification Committee at Manitou—Col.—J. W. Hill, Des Moines, Ia.; E. Albertson.

To Meet Eastern Freight Classification Committee—Thomas B. Meehan.

To Meet Southern Classification Committee—H. B. Chase; R. C. Berckmans, Augusta, Ga.

Tariff—Irving Rouse, Rochester, N. Y.; Thomas B. Meehan; H. T. Jones, Elizabeth, N. J.

Legislation—C. L. Watrous, Des Moines, Ia.; N. H. Albaugh, Pheasanton, O.; N. W. Hale, Knoxville, Tenn.; R. C. Berckmans, Augusta, Ga.; George A. Sweet, Dansville, N. Y.

Programme—Harlan P. Kelsey, Boston; H. B. Chase, Huntsville, Ala.; John S. Kerr, Sherman, Tex.

Publicity—Ralph T. Olcott, Rochester, N. Y.; Orlando Harrison, Berlin, Md.; J. Horace McFarland, Harrisburg, Pa.

Exhibits—R. C. Berckmans, Augusta, Ga.; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester, N. Y.

To Edit Report—J. Horace McFarland, C. L. Watrous, George C. Seager.

After the adjournment at noon on June 23 a joint meeting with the Greater Georgia Association was held to listen to an address on "Immigration" by U. S. Commissioner of Immigration Sargent, of Washington, D. C., after which the members of both associations, the Georgia legislators, city officials of Atlanta and members of the Atlanta Chamber of Commerce went by trolley cars to Cold Spring grove, six miles from Atlanta and enjoyed a Georgia barbecue spread in honor of the visitors.

PRESIDENT HALE'S ADDRESS.

*Congratulation on Year of Prosperity—Necessity for Interstate
Commerce Legislation for Nurserymen—Importance
of Freight Classification—Acknowledgement to Members for Assistance.*

GENTLEMEN OF THE AMERICAN ASSOCIATION OF NURSERYMEN:

I have no language capable of expressing my regret at being unable to be present at your meeting in Atlanta. Since I was elected president I have had my heart in the work, to the end of trying to make, in my humble way, this meeting one of the very best. I have a selfish motive, perhaps, in so doing, having been honored as your president for the past year; but I have had a higher motive than that—the good of our great Association—which, after all, should be uppermost in all of our minds and efforts. We must strive to make it better every year. Then further, I had in view the fact that the Association came South, to some extent, out of its way, largely because my friends and I, who live in this Southland, requested this favor; and now that you have gathered in one of our best cities in the South, I want you to feel at home. The South is not a land of prejudice. The white-winged dove of peace and fraternity spreads its wings over all our land, and the angel of plenty has visited every section. We are one people, for one flag, all for the Union, and all traveling to the same destiny. Nothing has brought about this blessed result more speedily, surely and permanently than the business of our country, and the coming together of our people in different associations, commercial, fraternal and religious, from all parts of our Union; and now, as no people, in our great country, are more liberal in their views, social in their habits, and stronger in their characters than the people of our profession, I want to join my brethren in the South in welcoming you to our happy land of mountains and rivers, of song birds and flowers, of peace and contentment, of love and fraternity. May you all run over with business and pleasure during this meeting.

I congratulate the nurserymen of our country on having had another year of unbroken prosperity; nothing has ever been seen like the general prosperity that has come to us, along with other business during the last year. Where men have worked hard, have been honest and faithful they have succeeded.

As our worthy vice-president will preside, and has, no doubt, prepared an address, I shall not go into detail in giving advice or offering suggestions. However, a few ideas I shall leave with you.

I am more thoroughly than ever convinced that we need a national law to govern interstate-commerce business. No two states have laws alike, and each year the laws are revised or amended. The most serious problem confronting nurserymen now is the subject of shipping under the laws of our states from one state to another, on account of inspection, license and different methods that the different states have governing this business. A business big enough to take in all the states in the Union is big enough to be controlled by the federal laws governing the Union. If one state has a good law it should be big enough to help other states who

have bad laws. Let us work together for general good, rather than individual good.

Different classification committees, composed of the different railroads of our country, have given different rates on shipments of nursery stock, both in less than carload and in carload lots. I believe a committee from your Association should look after this matter, and get all sections of our country to give the same freight rate and classification. What could the Association do that would result in more general good to our business than this?

I further believe that we should make an effort, through the National Association, upon all the railroads of our country, through their proper committee or officials, to have a more rapid movement and handling of nursery stock. Hundreds of thousands of dollars are lost to our business annually on the account of unreasonable delays in transit. This could be done, and would be done by the railroads, in my judgment, if they knew how much we suffered along this line, but they have never known it, except as one firm here and another yonder complains or files a claim for damages and loss. This Association could, in my judgment, do much by a concerted effort along this line.

I also think it important that the legislative committee take up properly the subject of license and other illogical and hurtful legislation in the various states, such as we now have in West Virginia. A vast amount of good can be done along this line, and we should not hesitate to fully equip, advise and command the committee on legislation, some strenuous work on this subject.

Such matters as tariff, insurance, cost of trees and various other things which committees, who are to report at this Association, have in hand I shall not mention, but leave it with the Association.

In order that the Association may be equipped to do all kinds of necessary work through its committees, and otherwise, I earnestly recommend that the membership fee be made \$4.00 per annum instead of \$2.00. I believe this is very important.

In closing I will suggest that the Association furnish our secretary with a book in which to record the death of our members, with such eulogies and references as the Association and others may furnish. Many strong members of our Association have gone down in death, and the Association, so far as I know, has no record of the same. Of course I know that the right way to do is to say the good things we have to say about our friends while they are alive and can hear it, and not wait until they are dead and gone and cannot hear it, but as we do not do this, and defer these good things until after death I, therefore, think the above suggestion would be wise.

I cannot close without heartily thanking Mr. Seager, our esteemed secretary; Mr. McFarland, who has had a very arduous task in reference to programme work, Mr. Pitkin, Mr. Watrous, Mr. Albertson and others for their hard, honest and faithful work during this year. Under all circumstances, if you have a successful meeting give them the credit for it all, they deserve it.

I now want to divest myself of any official relations to your Association, or utterances on this subject, and speak only as a member of the Association, and say, that I heartily favor

our next meeting being held at Portland, Oregon. Every member of this fine Association would feel about six inches higher if he could be enabled to take in the great sweep of this wonderful Western section of our progressive country. No man measures up to the full standard of a full grown American citizen until he can measure the greatness and fullness of the wonderful possibilities and developments of all sections of our beloved country.

Again regretting that I cannot be with you, I shall close by wishing you a very happy, enjoyable and profitable meeting, and another year of health, happiness and plenty, I am,

Yours very respectfully,

NATHAN W. HALE.

AMERICAN PEONY SOCIETY.

President C. W. Ward presided at the annual meeting of the American Peony Society which was held at the New York Botanical Garden, June 8-9. Mr. Ward said he did not believe it would be possible to straighten the nomenclature completely, but the society will have accomplished good work if it can get 100 varieties definitely described, so that purchasers would know exactly what they were buying from the names given. He said that a proposition had been made to one of the committees by Cornell University, whereby Professor John Craig, of that institution, had undertaken to test all the peonies sent him, and Mr. Ward thought it would be right in the line of carrying out this work if each member of the peony society contributed a single plant to be sent to Professor Craig for testing purposes.

The secretary's report showed that the society has 33 members and a balance of \$175.50 on hand. New York county was selected as the place of residence for the society.

Officers were re-elected as follows: President, C. W. Ward, Queens, N. Y.; vice-president, Guy A. Bryant, Princeton, Ill.; secretary, A. H. Fewkes, Newton Highlands, Mass.; treasurer and chairman press committee, J. H. Humphreys, Philadelphia; directors: Theodore J. Smith, Geneva, N. Y.; E. H. Reeves, Cleveland; William A. Peterson, Chicago.

Professor John Craig, of Cornell University, was appointed chairman of the nomenclature committee. He also was made an honorary member of the society.

It was suggested that the next meeting of the society be held in connection with that of the American Association of Nurserymen if that association selects some northern city. Chicago was also suggested. The matter was left in the hands of the directors.

The exhibition of peonies at the meeting was excellent, considering the weather conditions.

MR. LIGHTFOOT'S EMBARRASSMENT.

H. Lightfoot, of Sherman Heights, Tenn., filed a petition in bankruptcy on June 1st. Liabilities amount to \$2,930.20. Assets a stock of strawberry plants, farming implements and \$35. Mr. Lightfoot says:

"My action was caused by a three months' illness. I suffered with typhoid fever, from August 23, 1903, to the middle of November, 1903.

"At the time I was taken sick I had \$6,000 worth of nursery

stock growing at Cleveland, Tenn., which had cost \$4,000 to grow it. Our credits were only about \$1,500. The balance was put up by us. After being sick so long and with no one who was familiar with the business to look after it, upon my recovery I found that the demand for trees was well supplied and the season practically over. The amount of only \$2,000 was realized from the sale of the stock, which was only half the expenses for the season. Our creditors become impatient and demanded payment, which we could not make.

"The berry crop came on and was a failure financially. We were in no better shape. Our creditors began to sue and it was either pay or bankrupt. We had no money with which to pay and the result was that we were forced to bankrupt.

"I was born and reared in Hamilton county, and am known to hundreds of people. Up to eight months ago I paid all my just debts, when sickness seized me.

"I am going to work again, make some money, reinstate all the accounts I now owe and pay them dollar for dollar. In four years' time, with good health I will be out of debt"

THOSE WHO REGISTERED.

The register in the office of Secretary Seager at the convention showed the following names:

T. S. Hubbard Co., J. G. Harrison & Sons, A. L. Causse, George S. Josselyn, M. B. Fox, Thomas B. Meehan, J. Horace McFarland, H. T. Jones, E. Albertson, August Rolker & Sons, John C. Chase, August Rhotert, Herman Berkhan, J. McHutchison, C. J. Maloy, Chico Nursery Co., C. L. Yates, Ralph T. Oleott, A. M. Preston, The Conard & Jones Co., W. L. Killian & Son, David Baird & Son, Dayton Fruit Tree Label Co., Alabama Nursery Co., Irving Spaulding, C. C. Abel & Co., J. W. Shadow, Hugh Morton, Howard Davis, J. W. Gaines, G. H. Miller, N. H. Albaugh, R. A. Pincoffe, C. O. Fowler, E. W. Chattin, C. H. Joosten, John M. Good, E. Runyan, W. P. Stark, R. George, J. H. Dayton, D. H. Henry, Peters & Skinner, F. W. Meneray, W. M. Peters Sons, Youngers & Co., W. E. Galeener & Sons, F. B. Thacker, J. H. Smith, C. T. Smith, F. M. Smith, F. A. Weber, T. M. Grizzard, John S. Kern, H. & J. Galhouse, W. H. Hartman, J. R. Murphy, Ernest B. Hillenmeyer, C. D. Wenger, W. C. Reed, J. Van Lindley, J. A. Taylor, G. L. Taber, E. S. Welch, C. R. Burr & Co., H. M. Simpson & Sons, C. C. Mayhew, E. W. Kirkpatrick, Huntsville Wholesale Nursery Co., W. F. Heikes, J. R. H. Hilton, Frank B. White, K. Morton, Marshall Brothers, M. Barnes & Co., The Donaldson Co., J. C. Hale, Oregon Nursery Co., J. A. Lopeman, G. W. Sheldon & Co., M. B. Tulley, George Winters, John Peters & Co., W. H. Kessler, J. H. Wallace, Jackson & Perkins Co., J. A. Robbins, Guy A. Bryant, S. W. Crowell, J. S. Moss, C. A. Bennett, Washington Nursery Co., John A. Young, E. C. Peirson, W. T. Hood, Herbert A. White, W. L. Hillhouse, Harlan P. Kelsey, Greening Brothers Nursery Co., S. Dougherty, John Fraser, W. H. Wyman, F. N. Downer, R. G. LeFevre, Rev. M. Otis, W. W. Twitty, C. A. Ilgenfritz, Will Ilgenfritz, C. L. Watrous, W. J. Peters, F. D. Green, Gilbert Costich, John F. Sneed, John H. H. Boyd, J. N. Brice & Co., C. H. Peck, Fletcher & Harrison, Wm. H. Moon, Lonoke County Nurseries, James Cureton, I. D. Hudgins, W. G. Campbell, Jr., R. M. Bryan, J. W. Knox, Dr. A. R. Danforth, Hook Hardin Co., George H. Whiting, Prof. Wilmon Newell, J. S. Carroll, G. C. Roberts, Otto Katzenstein, Prof. John Craig, George C. Chandler, A. D. Williams, C. H. Hartley, B. Thornton, W. B. Thomas, Norris N. Smith, A. W. Newson, Gravellee Nursery Co., W. A. Humphries, Harry Nicholson, Pebble Hill Nurseries, Bruce Howell.

Smith Brothers, proprietors of the Concord Nurseries, Concord, Ga., have in their employ a man who put in 8,400 buds on June 10th, from sun to sun. "So far as we know," they write "this is the best budding that has ever been done."

REPORT ON INSURANCE.

Submitted to American Association by E. Albertson, Bridgeport, Ind.—Statistics and a Plan Resulting from Much Labor and Correspondence — Based on Actual Experience — Important Topic for Discussion.

One of the most carefully prepared reports that has ever been presented to the American Association is that of E. Albertson on the subject of insurance for nursery property, which was referred to his committee. Unfortunately there was not time to discuss it, but a committee was appointed to consider the matter further. The report is as follows:

Unfortunately for the Association, I find that the task assigned me of getting together full statistics of Insurance and Losses on Nursery buildings, and stock in storage, and the preparation of a proposition for Nurserymen's Mutual, or Co-operative Insurance Company, is a bigger one than I have been able to accomplish as I would like, and that this report is not by any means as complete as I had hoped to be able to submit, though have given it much of my time.

A list of questions was prepared, and, together with letter explaining same, was mailed to over three hundred of the leading nurserymen who we thought had (or might be interested in) storage buildings and insurance. Possibly some to whom it should have been sent were overlooked.

In reply to these we received about ninety reports, failing to hear from a number of those whom we know to be interested in, or having large storage buildings. We sent out a personal special letter from which we finally received about twelve reports, making a total of 102 reports. A few of our largest nurserymen either declining or neglecting to make report, yet by most of our leading nurserymen we are glad to report much interest taken and many good suggestions given.

Summary of Reports.

From these 102 reports we find the following:

Thirteen give no report of insurance carried on buildings or contents.

Twenty-three give no report of insurance carried on contents.

Eighty-nine report insurance on buildings, \$332,845. This doubtless includes some residences, barns, or other buildings than those included in the term "nursery buildings."

Seventy-nine report insurance on contents, \$459,600, making the total insurance reported, \$792,445.

Seventy-two report would carry in approved company, \$641,050. This also probably covers some other risks than nursery buildings.

Limiting risk to 20,000 this would be \$585,050.

Limiting risk to 10,000 this would be \$438,050.

Losses by fire in last 20 years as reported, \$39,500. (Of this, \$10,000 F. H. Stannard.)

Losses by fire in last 10 years as reported, 27,500. Nichols & Lorton, \$8,000; Ilgenfritz, \$5,000; Green's Nursery Co., \$5,000; W. and T. Smith, \$3,000.

Losses by fire in last five years, \$6,400. The losses of the last five years being those of: C. M. Hurlburt, \$2,400; Rogers Nursery Co., \$3,000; W. H. Wyman, \$1,000.

This makes the losses of the last five years but 1.3% on

\$100,000, or about 3-10% on \$438,000, the amount those reporting state would carry, or less than 2-10% on amount of insurance reported carried last year.

Some reported losses of barns, etc., but we have not intentionally included these in above figures.

In the preceding five years were several heavy losses, especially that of Nichols & Lorton, \$8,000, reported as carelessness, and on a building such as no company would insure. \$5,000 by Ilgenfritz, \$5,000, Green's Nursery Company; \$3,000, W. & T. Smith.

In the preceding ten years was lost \$10,000—F. H. Stannard & Co.

You will notice from above that although the building of storage houses has increased very much in the past four or five years (we should think being more than double that of all hose in use previous to 1899), the losses have been much less.

This, we think, is largely due to better plans of construction, doing away with necessity of fires, or more care in their use, and the separating of storage buildings from others.

Sixteen report watchman during winter. Three report watchman's clock.

Condition of Risk.

Fifty per cent. report buildings one story—balance 1½ and two story.

Ten per cent. report brick and stone buildings—90% mostly frame.

Twenty-five per cent. report gravel, iron, or tin roofs—85% of reports shingle, wood or paper, though think these are the smaller buildings.

Ten per cent. report floors wood, 50% earth, 40% wood and earth.

Ninety per cent. report buildings isolated—10% exposed to other buildings.

Forty per cent. have advantage of city water—most of others private.

Forty per cent. report no fires over wood floors—others report fires mostly in offices or grafting rooms.

Twenty-five per cent. have hand extinguishers.

Fifty-two are willing to pay premium of one per cent. while necessary to build up guarantee fund.

Twenty-three agree to payment of \$250 cash to make guarantee fund available at once. Among those are such firms as A. L. Wood, Irving Rouse, Oregon Nursery Oa., Alabama Nursery Co., Geo. Peters & Co., W. & T. Smith, Starks & Co., E. S. Welch, Youngers & Co., Jackson & Perkins, R. G. Chase Co., Albaugh Nursery & Orchard Co., Storrs & Harrison Co.

Some Objectionable Features.

Now in regard to plan as outlined in circular letter, while it is certainly practical and safe, yet after more careful consideration and investigation it has some objectionable features. The accumulation of large cash fund on which we could hope to realize only three or three and one-half per cent., and on which we would have to pay taxes (owing to location of office) of one and one-half to two and one-half per cent., making a heavy expense account. Also this would hardly be paying in proportion to insurance carried.

Quite a number were willing to make cash payments of

smaller amounts more in proportion to insurance carried.

Some who were not willing to pay the one per cent. premium on stock in storage wanted short term rate, but as it would be about the same with all of us we hardly see the necessity of bothering with short term rates.

While the cash guarantee fund plan has met with the approval of a majority of the leading nurseries who have reported, we have another to suggest which we believe has some advantages. This we have taken from the Indiana Millers Mutual Fire Insurance Company.

Instead of a cash guarantee fund they take a note for the full premiums for five years—for example—on a policy of \$10,000, at one per cent. this would be \$500, and on \$1,000,000 of insurance would give a fund of \$50,000.

These notes, according to the laws of Indiana, are not assessable for taxes and they are not interest bearing.

For complete explanation of this plan and method of operation we read you this circular.

Of course some modifications of this plan might be necessary to adapt it to our use.

We also have their application blanks with form of note attached, which we can read, or will be glad to have those interested examine.

Explanation of Plan.

Take your present board rate and figure with that rate as the basis, you can readily arrive at the amount of the premium note required in your particular instance.

For example, if your present board rate is two per cent., it would be \$200 for \$10,000 insurance per annum; multiply the \$200 by five, which would give the amount of the deposit note, which would equal \$1,000. We collect ten per cent. of this note on delivery of policy, or an amount equal to one-half one annual premium. This cash payment is treated as a cash deposit, which is held by the company to secure the payment of the assessments as they accrue. At the end of each six months the amount earned of this \$100 is determined, and notice of this amount is mailed the secured. When this is paid, which we term an assessment, it restores in full the original cash payment of \$100. Illustrating from the experience of the Indiana Millers Company, at the end of six months, instead of paying in \$100, it would cost but \$55, and when that amount is paid the credit would stand again at the original \$100. Should the assured decide to withdraw from the company there would be returned on this basis of figuring \$45.00 of the original \$100 paid.

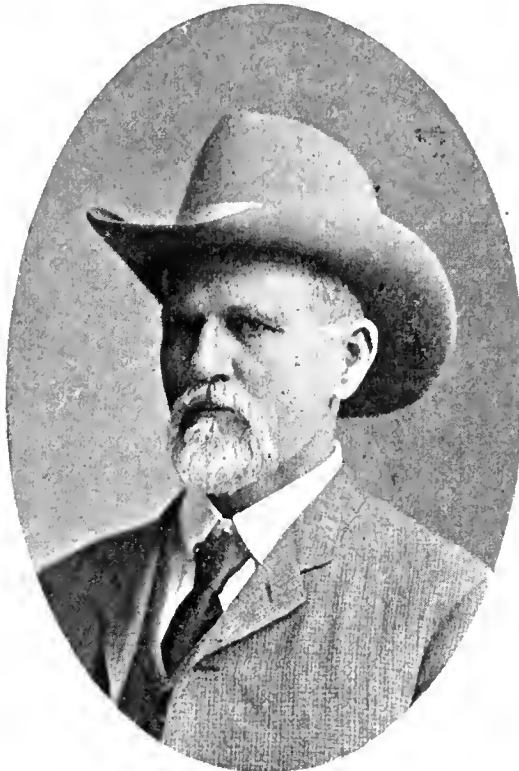
It is expressly stipulated in the premium note attached to the application, as you will see, that it is "not negotiable" and payable only in such installments at such times as the directors may order and assess, for the losses and expenses of said company, pursuant to its charter and by-laws. It is hereby expressly understood and agreed that there is no liability beyond the face amount thereof, "and that upon termination of said policy by surrender and cancellation all liability of the maker shall cease. Our policies will contain

the usual provisions for non-payment or cancellation of the insurance, either by the assured or by the company at pleasure, in which event note and policy will be cancelled and surrendered.

Policies are issued for five years.

The foregoing plan is strictly in accordance with the Indiana law providing for the organization of mutual fire insurance companies, and under which the Indiana Millers Mutual Fire Insurance Company was organized, and has been in successful operation for the past 15 years.

E. W. KIRKPATRICK.



E. W. KIRKPATRICK,
President American Association of
Nurserymen.

President E. W. Kirkpatrick, of McKinney, Texas, elected at Atlanta to preside over the American Association of Nurserymen during 1904-5, went to Texas from Tennessee in 1854. He has been a nurseryman and fruit grower for thirty years. He has been active in several organizations devoted to this industry. He has been president of the Texas Nurserymen's Association for years, and is a member of the Southwestern Association. He is an officer in the Farmers' Congress and was commissioned to organize farmers' institutes. He is president of the Texas Nursery Company, which has been quartered at Sherman, Tex., McKinney, Tex., and Durant, Indian Territory. He is also president of a fruit-growing company at Whitesburg, Tex. Mr. Kirkpatrick has long been prominent in the councils of the American Association of Nurserymen, and his advice on all subjects connected with the nursery business is sought for. He is able and aggressive, and the Association is sure to benefit by reason of his leadership.

J. Horace McFarland, well known to nurserymen of the American Association is the author of a volume entitled "Getting Acquainted with the Trees." The book is particularly attractive not only account of its subject matter but by reason of its unique illustrations and typographical excellence. The illustrations are from photographs by the author and the work is printed at his Mount Pleasant Press, Harrisburg, Pa. Mr. McFarland treats the subject of trees from the view-point of the amateur and thus gets a little closer to the average reader than is ordinarily done. It is with an affection characteristic of the true tree lover that the author treats of the various kinds of trees in our country and his illustrations actually convey the same impression. "The red oak, the black oak, the scarlet oak, all splendid forest trees of the Northeast," says he, "are in the group of confusion that can be readily separated only by the timber-cruiser who knows every tree in the forest for its economic value, or by the botanist, with his limp-bound Gray's Manual in hand. I confess to bewilderment in five minutes after the differences have been explained to me, and I enjoyed, not long ago, the confusion of a skilful nurseryman who was endeavoring to show me his young trees of red oak which the label proved to be scarlet! But the splendidly effective trees themselves can be fully appreciated, and the distinctions will appear as one studies carefully the features of these living gifts of nature's greenness." There is an index and list of botanical names. Cloth, Pp. 241, \$1.75 New York: THE MACMILLAN CO. Rochester: SCRANTON, WETMORE & Co.

The National Nurseryman

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., JULY, 1904.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, E. W. Kirkpatrick, McKinney, Tex.; vice-president, C. L. Watrous, Des Moines, Ia.; secretary, George C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

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Tariff—Irving Rouse, Rochester, N. Y.; Thomas B. Meehan, Dreshertown, Pa.; H. T. Jones, Elizabeth, N. J.

Legislation—C. L. Watrous, Des Moines, Ia.; N. H. Albaugh, Phoneton, O.; N. W. Hale, Knoxville, Tenn.; R. C. Berckmans, Augusta, Ga.; George A. Sweet, Dansville, N. Y.

Programme—Harlan P. Kelsey, Boston; H. B. Chase, Huntsville, Ala.; John S. Kerr, Sherman, Tex.

Publicity—Ralph T. Olcott, Rochester, N. Y.; Orlando Harrison, Berlin, Md.; J. Horace McFarland, Harrisburg, Pa.

Exhibits—R. C. Berckmans, Augusta, Ga.; J. C. Hale, Winchester, Tenn.; M. B. Fox, Rochester, N. Y.

To edit report—J. Horace McFarland, C. L. Watrous, George C. Seager.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN WHOLESALE NURSERYMEN'S ASSOCIATION—President, F. H. Stannard, Ottawa, Kan.; secretary, E. J. Holman, Leavenworth, Kan. Meets in July and December at Kansas City, Mo.

SOUTHERN NURSERYMEN'S ASSOCIATION—President, W. T. Hood, Richmond, Va.; vice-president, Henry Chase, Huntsville, Ala.; secretary, J. C. Hale, Winchester, Tenn. Meets at Asheville, N. C., in August, 1904.

SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. M. Kirkpatrick, McKinney, Tex.; secretary, John S. Kerr, Sherman, Tex.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

FREIGHT CLASSIFICATION CHANGED.

Irving Rouse and Chase Brothers Company, Rochester, N. Y., are especially interested in a communication from E. E. Marks, of G. W. Sheldon & Co., import freight agents, Lehigh Valley railroad, with offices in New York, Chicago, Paris and London, in which he says that the efforts of his company with the classification committee have been successful; and that, effective July 1st, seedlings, plants, trees and shrubs, will be rated at fifth class in carloads and second class in less than carloads. This concession is the result of a vigorous protest by large importers.

THE ATLANTA CONVENTION.

One of the most successful conventions in the history of the American Association of Nurserymen was that at Atlanta, Ga., last month. Contrary to expectation the attendance was large and quite representative although of course the southern members predominated. Particular credit is due the programme committee. In the face of obstacles a program was prepared and was carried through on schedule time, the several features being worthy of the efforts of the committee.

The value of a standing committee on programme was fully shown at this convention. Had it not been for the persistent work of the committee for weeks before the convention and right down to the moment when the members of the Association were called together, it is probable that the convention proper would have been as short as was that of twelve years ago in Atlanta when on account of the heat, adjournment was taken after a two hours' session. For it was hot in Atlanta last month.

In the absence of N. W. Hale and the temporary illness of Vice-president F. A. Weber, C. L. Watrous presided. Mr. Watrous conducted the proceedings with the best of judgment, steering carefully between a curtailment of the schedule and a tedious extension of discussion, to that the entire programme was presented as far as it was possible to do so. Several speakers were not present, but in some cases their places were filled.

There was, perhaps, reason enough in the hot weather for not provoking discussion of the papers presented, or for the use of a question box on this occasion, but we beg to suggest that discussion of practical topics is the most valuable feature of the annual conventions. It brings out the strong points touched upon by the authors of papers and gives opportunity for participation by all in the convention proceedings.

No radical action was taken at Atlanta. Committee reports were received, but the Association was content to hold matters open, with the exception of the question of freight rates. On this topic E. Albertson presented a report suggesting conferences with the freight classification committees to emphasize the position taken by the nurserymen of the country generally. Special committees for this purpose were appointed.

In the selection of E. W. Kirkpatrick, of Texas, for president the Association honored itself as well as Mr. Kirkpatrick,

for he is a progressive, active, able, executive officer, with large experience in horticulture and a deep interest in the welfare of the American Association. The other officers of the Association are also well chosen.

One of the most interesting and instructive features of the meeting was the excursion to the great peach orchards of the State of Georgia. Courtesies innumerable were extended to the nurserymen, all of which were highly appreciated.

It is believed that the Association chose wisely in determining to meet next year at West Baden Springs, Ind. A strong effort had been made by the Pacific Coast Nurserymen's Association, through Mr. McDonald, of Salem, Ore., to have the convention of 1905 in Portland, Ore.; but while many expressed a desire to go to the coast, it was thought that the best interests of the Association would be better conserved if the convention were not held so far from the eastern sections. There should be no distracting influences at the Indiana meeting place next year.

ON FORT VALLEY EXCURSION.

C. C. Abel, R. C. Chase, J. H. H. Boyd, C. A. Bennett, E. Albertson and wife, J. J. Barnes, David Baird, M. Barnes, R. C. Berckmans, Herman Berkhan, Hon. H. H. Cabaniss, A. F. Carnes, P. H. Rice, A. J. Brown, Guy A. Bryant, R. M. Baker, George C. Chandler, Calhoun Nursery Co. (J. H. Hillhouse), John C. Chase, Chattanooga Nursery Co., S. M. Jones, Chas. Cannon, D. W. L. Cason, Howard Davis and wife, R. C. Stoehr, S. Dougherty, F. N. Downer, A. R. Danforth, E. O. Fowler, W. A. Easterly, S. P. Fowler, J. B. Gorman, W. E. Galeener, Eugene J. Hall, Paul Hoffman, Benj. J. Greening, D. H. Henry, J. C. Hale and wife, Orlando Harrison, Mr. O'Hara of Huntsville, I. D. Hudgins, C. J. Hood, Miss Pauline Head, D. W. Hunter, Bruce Howell, J. R. H. Hilton, W. A. Humphries, J. E. Jackson, Geo. Perkins, Irving Jaquay, Otto Katzenstein, Harlan P. Kelsey, W. H. Kessler, John S. Kerr, W. L. Killian, E. W. Kirkpatrick, J. W. Knox, R. G. LeFevre, H. Lightfoot, J. E. List, P. H. McWhorter, Wm. H. Moon, H. W. Marshall, C. C. Mayhew, James McHutchison, J. W. Gaines and wife, Thos. B. Meehan and wife, G. H. Miller, Hugh Morton, Kenneth Morton, J. R. Murphy and wife, J. M. Mallory, T. J. McKamy, George Nees, Ralph T. Olcott, C. H. Peek, E. C. Peirson, J. H. Skinner, C. M. Peters, Earl Peters, Wilson J. Peters, A. M. Preston, Mrs. W. J. Peters, W. C. Reed and wife, John L. Sneed, J. A. Robbins and wife, W. B. Harman, Geo. W. Scruggs, Miss Kitty Wyche, A. M. Simpson, J. H. Smith, C. T. Smith and wife, Mrs. F. M. Smith, W. P. Stark, Southern Fruit Grower, B. Thornton, G. L. Taber, F. B. Thacker and wife, R. S. Walker, C. L. Watrous, E. S. Welch, W. G. Campbell, James M. Irvine, F. B. White and wife, G. H. Whiting, N. L. Willet, C. L. Yates and wife, R. M. Bryan, C. J. Powell, S. E. Magill, E. F. Kitchens, A. M. Kitchens, W. E. Mobley, James Cureton, G. A. Moore, W. F. Moore, C. A. Gay, W. C. Lawrence, Sam'l Wilkes, W. T. Hood, J. Van Lindley, J. H. Hale, G. Harold Powell, C. J. Powell, Prof. John Craig, J. Horace McFarland, C. J. Maloy, Peter Youngers, W. J. C. Grant, J. G. McNair, F. W. Meneray, Prof. W. M. Scott, Assistant Ent'st Smith, M. B. Fox, F. A. Weber, F. G. Withoft, Clarence Withoft, F. W. Hazlehurst, Harry P. Brown, A. C. Holt, S. B. Barfield.

REPORT OF EXHIBITS.

The committee on exhibits, Prof. John Craig, Thomas B. Meehan and Peter Youngers, reported as follows:

Your committee beg to offer the following report on the exhibits displayed at this meeting:

These displays are often made at considerable inconvenience. They add much to the profit and interest of the meeting and are therefore to be warmly commended.

Raffia—Thomas Meehan & Sons, Dreshertown, Pa., show an imposing display of long fibre raffia of especially good color and uniform quality. McHutchison & Co., 218 Fulton Street, New York City, have an exhibit of the same.

Labels—Benjamin Chase, Derry, N. H., show wired printed and unprinted tree labels. Yellowwood, basswood and pine are used for the labels, while copper and annealed wax are employed to fasten them. Dayton Fruit Tree Label Co., Dayton, O., show an interesting collection of wired, printed and unprinted tree labels of different sizes; also a maker of plant label for small fruits, such as strawberries.

Level—The Bostrom-Brady manufacturing company offer a simple form of level for use in grading and draining. So far as simplicity of construction and apparent efficiency are concerned it is commendable.

Spray apparatus—E. C. Brown & Co., Rochester, N. Y., exhibit a sample of the auto-spray hand pump. The Hook-Hardie Co., Hudson, Mich., exhibit working parts of spray pumps adapted to nursery and orchard work; also photographic illustrations of the nursery pump in operation.

Plant stakes—C. H. Joosten, 201 West Street, New York City. A collection of bamboo stakes for supporting plants.

Lithographs—Rochester Lithographing Co., Rochester, N. Y., show a fine collection of cards and colored plates of fruits, ornamental trees and shrubs.

DELAYED BY CONVENTION.

This issue of the NATIONAL NURSERYMAN was delayed in order to include a report of the Atlanta convention. Some of the papers presented were too voluminous to be included in this issue; they will appear in succeeding issues.

Among Growers and Dealers.

Winfried Rolker sailed for Europe, July 2d, to look after their sundry business lines.

Charles Fremd, Jr., Rye, N. Y., is spending the month of July resting and fishing in and about Rochester, N. Y.

The Nurserymen's Mutual Protective Association re-elected N. H. Albaugh president and George C. Senger secretary.

The twenty-eighth annual session of the Georgia Horticultural Society will be held at Tallulah Falls, Ga., August 4-5.

R. C. Berckmans was made president of the American Mutual Protective Association. The other officers were re-elected.

Charles J. Brown, president, and Guy A. Bryant, secretary of the American Retail Nurserymen's Protective Association, were re-elected.

N. C. Wragg, president of the J. Wragg & Sons Nursery Company, Wankee, Ia., has acquired the entire stock of the company. It was founded in 1878 by the late John Wragg.

The windmill water tower of the F. & F. Nurseries at Springfield, N. J., was struck by lightning on May 30th and, with a two-story packing house, was burned to the ground. Loss \$3,000.

Among callers on Rochester, N. Y., nurserymen last month were: George S. Josselyn, Fredonia, N. Y.; Wilson Peters, Troy, O.; Theodore J. Smith, Geneva, N. Y.; F. M. Hartman and John B. Morey, Jr., Dansville, N. Y.; James McHutchison, New York city; H. A. Chase, Huntsville, Ala.; M. McDonald, Salem, Ore.; J. J. Harrison.

PEACH ORCHARD EXCURSION.

Interesting Trip to Mayfield, Macon, Fort Valley, Marshallville and Myrtle by One Hundred and Fifty Nurserymen After the Atlanta Convention—Georgia Barbecue at Berckmans Brothers' Orchards—Testimonial of Appreciation.

After the convention the nurserymen were treated to an excursion of two days' duration among the peach orchards of Georgia, the largest in the world. Boarding a special train on the Georgia railroad, under the direction of R. C. Berckmans and the assistant general passenger agent, F. J. Robinson, 150 nurserymen were taken to the Mayfield orchards of Berckmans Brothers where after a ride in fruit wagons through an interesting country, the party arrived at noon. A Georgia barbecue under a great oak tree awaited the excursionists. This was heartily enjoyed. Then after speeches by Hon. H. H. Cabaniss of the Augusta "Chronicle," President E. W. Kirkpatrick, C. L. Watrous, C. T. Smith, G. L. Taber and John C. Chase, the orchards and packing house were visited. The orchards were established in 1898. Forty or fifty carloads of fruit will be shipped from them this year. Berckmans Brothers grow the Red River, Carman, Manie Ross and Elberta varieties. They ship to all the large northern cities. They have 710 acres in peach orchards. A shipment made on Monday, for instance, will be on the Boston market on Thursday. The soil of these orchards is sandy with a clay subsoil and it has a good natural drainage.

The nurserymen were much interested in the packing of the fruit. Three of the girls there employed can pack a carload of peaches in a day.

Proceeding on the journey the party reached Macon in the evening. Early on Saturday they boarded a special train on the Central of Georgia railroad and at 9 A. M. were at Fort Valley where they were met by J. H. Hale and other peach growers. Flat-topped wagons upon which were a number of peach baskets, some of which were upturned to serve as seats while others were filled with ripe peaches from cold storage for eating, were in waiting. The party was driven through a portion of the great Hale orchards and wondered at the extent of the industry.

Mr. Hale has 2,100 acres in peaches and has 200 acres more to plant. His trees range from one to 13 years old. He employs 200 hands and expects to ship 250 carloads this season.

From Hale's the party went to Albaugh's orchards and viewed the trees and packing house. This is the pioneer peach nursery on a large scale in the section.

At the Rumph orchards the party was met by Samuel H. Rumph and was regaled with peach punch on his spacious verandahs. Mr. Rumph talked of the famous Elberta peach which he originated and cheerfully answered the many questions asked. The packing house of E. J. Willingham and the crate factory at Fort Valley were also visited.

It was a most interesting trip. Many photographs were taken by members of the party. All present were deeply appreciative of the courtesies extended and on the way back to Atlanta on Saturday night the following expression of appreciation was prepared and signed by the president of the Association:

IN RE EXCURSION FOR NURSERYMEN FROM ATLANTA TO FORT VALLEY, GA., JUNE 24TH AND 25TH.

The members of the American Association of Nurserymen, one hundred and fifty in number, desire to express through the president of the National Association their deep appreciation of the many courtesies extended to them, through the agency of Mr. Berckmans, of Augusta, Ga., by the railroad companies and the peach growers of Georgia, during the two days' excursion from Atlanta to Mayfield, Macon, Fort Valley, Marshallville and Myrtle on June 24th and 25th, 1904.

The trip was one of continuous hospitality of the heartiest and most generous sort and has given those who were fortunate enough to enjoy it an experience with true Southern courtesy that will be remembered always with the greatest pleasure.

To the Georgia Railroad Company through its general manager, Mr. Thomas K. Scott and its general agents, Mr. S. E. Magill, of Atlanta, and Mr. W. M. McGovern, of Augusta, who personally conducted the excursion, and Conductor J. R. Cosby; and to Mr. W. A. Winburn, vice-president and traffic manager of the Central of Georgia Railway Company, and Mr. F. J. Robinson, assistant general passenger agent, Savannah, Ga., who personally conducted the excursion, as well as to Mr. J. M. Mallory of the industrial department; Mr. J. G. Carlisle, commercial agent, and Conductor W. R. Dawson, the nurserymen feel especially grateful. These companies issued complimentary tickets and placed at the disposal of the excursionists fully equipped special trains which conveyed the nurserymen directly to the great peach orchards of the state, and quickly from place to place in the orchard district, so that the excursionists were enabled to see the most that was possible in the time at their disposal.

In no other state of the Union have the members of the American Association of Nurserymen been so cordially received and so bountifully and continuously entertained. Every member of the party has repeatedly expressed his or her hearty appreciation of the courtesies extended, and all desire to record their gratitude. The fine equipment of the railroads traversed on this occasion and the excellent time made on special schedule have been noted.

To Mr. R. C. Berckmans who arranged the excursion and who entertained the nurserymen at the Mayfield orchard of the Berckmans Brothers, and to all who assisted him in that novel and enjoyable entertainment, special recognition is given, and appreciation of the care needed to make such a trip a success is expressed.

It is desired also to thank Mr. J. H. Hale, Mr. N. H. Albaugh, Mr. Samuel H. Rumph, Mr. E. J. Willingham and Mr. F. G. Withoft for courtesies extended by means of which the visiting nurserymen were enabled to view the great orchards and the packing houses at close range and under the most favorable circumstances.

Besides enjoying the trip to the fullest extent, the nurserymen have gained information which it will be their pleasure to use at every opportunity for the advancement of the interests of the State of Georgia and her most hospitable people.

E. W. KIRKPATRICK,
President American Association of Nurserymen.

FREIGHT CLASSIFICATION.

Committee Calls Attention to Need for Prompt Action—Suggests that Special Committee be Appointed to Confer with Railroad Classification Committee, East, West and South—The Report.

The report of the committee on transportation, presented by E. Albertson, of Bridgeport, Ind., one of the most important matters before the convention at Atlanta, is as follows:

The Committee on Transportation has nothing to report in actual results accomplished. As reported last year, it was not thought best to bother the railroad officials with petitions for revision of rates or classifications while they were already overloaded with business.

But it seems that advantage has been taken of us in some matters and that it is time now when the Association should appoint a "special" committee to meet with the Western Classification Committee, which meets in Manitou, Colo., July 12th; and also the Eastern Trunk Line or Official Classification Committee, which meets in New York in October, and if possible secure a revision of rates and classifications.

In the Eastern or Official Classification we should insist on and do all in our power to secure the third class rate on trees in boxes, of which we had the benefit until two years ago, when it was raised to second class, making an average increase of about thirty per cent.

Also we should work for change in their classification of seedlings as plants instead of trees, which change was made by them last January. This change affects especially importations where the consular invoice accompanies way bill, showing contents, and does not affect shipments originating here which are billed as trees and railroad officials or inspectors do not see invoices—but if this goes unnoticed they will make other oppressive changes.

Effect of Rate Change.

As a sample of effect of above change, last season we had an importation of about 17,000 pounds in one shipment, billed out of New York by Merchants Despatch Transportation Company as car trees at thirty cents per 100, but when the papers came before the Official Trunk Line Inspector the rate was raised to seventy-five cents per 100, a difference of forty-five cents per 100, or over \$75 there being no carload rate. On several other shipments we had the same experience, and have not yet been able to get refund.

While other seedlings are classified and rated as plants, osage hedge is rated as trees. Why there should be this difference we do not know.

In the classification on carloads we do not think we have been hurt any, as they have given us a minimum of 16,000 pounds on cars not over thirty-six feet six inches in length inside measure, 20,000 pounds minimum applying to cars, not over forty feet six inches. Cars over fifty feet six inches taking a minimum of 40,000 pounds, with proportionate minimums for cars between these lengths. Carloads taking fifth class rate, which is about the same as rate "B" in Western Classification.

Now in the Western Classification we have been notified by some of the Western Nurserymen of a proposed change

from the flat minimum of 20,000 pounds regardless of size of car to a minimum of 20,000 pounds on thirty-six feet cars, which would make forty feet cars 22,400 pounds and fifty feet cars 28,400 pounds.

Difference of Opinion.

After much correspondence we found some of the larger Western nurserymen very much opposed to any change, claiming it would be a great hardship to them. While others thought if the Western Classification Committee could be induced to adopt the Eastern Classification with a minimum of 16,000 pounds, on thirty-six feet cars it would be an advantage. So we did not know what to ask of the members of the committee, owing to so much difference as to what would be to their interest, but after much correspondence the writer met Mr. McDonald in Chicago, the 8th inst., and after talking the matter over we concluded we were not in position to go before the members of the Classification Committee and ask anything, but that it was best to refer the whole matter to the Association for discussion and instruction.

We called on the Acting Chairman of the Western Classification Committee and in conversation with him am led to think that if we appear before their committee with request that no change be made it would be granted and that possibly we might be able to secure the adoption of the Eastern Classification, so that it would all be uniform. But that we would have to appear before the sub-committee, which will meet about the 6th, as they would receive and hear us and report to the committee. We have the names of the subcommittee.

We think the Western Wholesale Nurseryman's Association have also taken this matter up and have been working on it, do not know just what they have done, but understand they will also have a committee to meet the Classification Committee, and it would certainly be advisable that the special committee of the National Nurseryman's Association should be instructed and act in harmony with this committee. Perhaps F. W. Stannard can tell us something of how the matter stands with the Wholesale Association, as understand he is president and has had the matter in charge.

Do not know of anything else to report at this time, but would urge that action be taken at once to protect our interests at the meetings of both of the Classifications Committees, and that strong committees be appointed and fully instructed by this Association.

Obituary.

William S. Failing, of East Portland, Ore., died May 24, aged 64 years.

Cyrus M. Kauffman, of Brownville, Neb., died at Tipton, Ind., last month.

Thomas Smith, Stranraer, Scotland, died May 18, aged 84 years. He had been in the nursery business in Scotland 43 years.

Melville C. Reynolds, secretary of the Albaugh Nursery and Orchard Company, died at his home in Phoneton, Ohio, on May 20. He was born in Western Pennsylvania, and was 62 years of age. He had been secretary of the firm 25 years.

The fifteenth annual report of the Missouri Botanical Garden contains reports for the year by the director and officers of the board; also scientific papers and a list of library contributions.

COLD STORAGE INQUIRY.

*Address Before American Association by G. Harold Powell,
Expert of Department of Agriculture, Washington, D. C.
—Cultural and Fruit Gathering Suggestions—New
Ideas in Transportation Problems.*

G. Harold Powell presented the following paper at the Atlanta convention of the nurserymen:

MR. PRESIDENT AND MEMBERS OF THE NATIONAL NURSERYMEN'S ASSOCIATION: Your programme committee has asked me to discuss briefly some of the results of the fruit storage investigations of the Department of Agriculture. The purpose of these investigations is to determine the keeping quality and the ultimate value of the principal varieties of fruits when grown under different conditions of soil, climate, orchard management and location, and when harvested, shipped, stored and sold under existing commercial methods. These storage investigations are carried on by the Department with a view to informing the fruit grower and the fruit dealer what fruits are best adapted for storage purposes, and to find out what factors in the growing, the handling and the storage of the various fruits determine their successful storage and ultimate useful qualities.

I would sum up the principal requirements for successful fruit storage as follows: Let the fruit come to the full size and a high degree of color on the tree, but retaining a hard texture when picked; pick the fruit with the greatest care to prevent bruising, as a large proportion of the losses in the warehouse result from bruising the fruit after it leaves the tree; wrap fancy fruit, especially the more delicate varieties; cool the fruit as quickly as possible after picking, to retard the ripening processes, which progress rapidly at this time, and to check the growth of diseases; store the fruit in a temperature of 30° to 32° Fahrenheit, in well ventilated rooms; and sell it before it reaches the point of deterioration.

As we can only touch briefly on this subject at this time, I will confine my remarks to two phases of the storage question, namely, "The Influence of Cultural Conditions on the Shipping and Keeping Qualities of Fruits," a subject of which we know comparatively little, and second, "The Importance of Cooling the Fruit Quickly After it is Picked, if it is Intended for Long Distance Shipment or for Long Keeping."

Cultural Conditions.

It has been our experience that fruit that has been forced in growth or that has been grown to unusual size has comparatively poor keeping quality. The forcing of the growth may have been the result of intensive culture and fertilization, causing a continuous stimulation of the trees and producing a rank wood growth; or the fruit of the same varieties from widely separated areas may show inferior keeping quality on account of quick acting soils and differences in climate that produce larger and denser trees.

In our apple investigations we have observed a difference of three to five months in the keeping of several varieties, such as "York Imperial," "Pound Sweet," "Ben Davis," "Winesap," "Hubbardston Nonesuch" and "Sutton Beauty," when grown in adjoining rows on trees of different ages, the fruit from the young tree deteriorating soonest.

A light crop, which generally produces large fruit, is likely to break down in storage several weeks earlier than fruit of medium size; or the largest specimens from individual trees deteriorate much sooner than the medium-sized fruits.

We are often asked whether apples grown under cover cropping, high cultivation, pruning and spraying, are not inferior in keeping to those from orchards grown in sod where the trees grown more moderately. We have not made extensive comparisons along this line, and I do not believe it possible to draw comparisons between the effect of sod and tillage on the keeping quality of the apple unless all of the other conditions in the orchards, such as the type of soil, the age of the trees, are similar. But there is little question that the fruit from an orchard that is being forced acquires the habit of going through its life processes more rapidly than one under moderate growth, and that it reaches the end of its life sooner after picking. (Illustrated with colored drawings.)

I have had a good opportunity to study the peach industry for several years, especially in Georgia, and I have noticed repeatedly that it is not always the fruit from the best fed and cultivated orchards that reaches the consumer in best condition. High cultivation, cowpeas or other forms of cover crops, produce a vigorous growth in the peach tree, they thicken up the foliage, enlarge the fruit and cut down the color unless the greatest care is paid to pruning, to let in the sunlight and air; and while these orchards may produce much larger crops of fruit and may be more profitable to the owner, there is little question but that the fruit must be handled with more care if it is to reach the consumer in good condition.

Practical Difficulties.

I have dwelt on this phase of the subject in order to point out that some of the practical difficulties that confront the shipper and the storer of fruits, and which are sometimes attributed to the transportation company and the warehouseman, may be inherent in the fruit itself. I have referred to this branch of our Investigations, is it impresses me more and more each year or one to which the fruit grower and the fruit shipper will need to give more attention in the future in order that he may modify his cultural practices, if he so desires; or that he may know better what to expect of fruit grown under certain conditions, and modify the method of handling it accordingly.

A large proportion of the practical difficulties in the storing of fruits is the direct result of delaying the fruit after it is picked and before it is stored. As soon as the fruit is picked from the tree its ripening processes proceed more rapidly than they do when it is hanging on the tree in the same temperature. Every effort must, therefore, be used to retard the ripening at this time. In cool seasons the fruit may be delayed for several days or weeks without serious injury, as the cool weather retards the ripening, but in warm weather, or when the temperature averages about 60° Fahrenheit, the ripening progresses more rapidly. At the same time, the diseases of the fruit spread quickly if the storing of the fruit is delayed, and the apple, the pear or the peach may already have reached the point, or have actually begun deterioration when the storage house is reached.

A delay of a few days in storing the apple may cause it to rot early in the storage season, to soften several weeks or months ahead of the normal time, and to show scald prematurely. A similar delay in storing the pear may cause it to rot at the core, while the fruit is still firm outside, within a short time after entering the warehouse.

While the fruit is delayed in piles in the orchard, or in closed, unventilated buildings, or in any other condition in the orchard, or delayed at the railroad siding, or in transit, or at the receiving terminal, it is rapidly approaching the end of its life and may already have consumed a large part of the span that would otherwise be allotted to it in the warehouse.

While there may be serious commercial losses in the staple storage crops, like the apple and the pear, on account of a delay in cooling the fruit after it is picked, the most disastrous results occur when perishable fruits like the small fruits, the peach, the plum, and early varieties of pears and apples, are subjected to a warm temperature between the picking and their storage or sale. The ideal method of handling a perishable fruit for long distance shipping, or for storage, is to cool it quickly after it is taken from the tree, in order to retard the ripening and the growth of diseases.

In a delay of twenty-four hours in a high temperature a promising lot of peaches may consume a large proportion of its remaining life history and the brown rot may have developed to a considerable extent, thereby reducing its durability in transit or in the market.

New Cooling Methods.

This phase of the subject has an important bearing on the transportation of perishable produce. In 1903, when the season was wet, it was not uncommon to find from 10 to 30 per cent. decay in cars of Georgia peaches on arrival in the New York market after a three days' trip, even when the fruit was handled in the best condition in the orchard, and the packing house, and when the cars were thoroughly iced in transit. Peaches are frequently loaded in the cars at a temperature of 100° or more, and under these conditions the ripening proceeds and the diseases spread before the ice of the car can cool the fruit. If the fruit could have been cooled quickly to 45° before loading, the ice would maintain that temperature in transit, and these frequent losses would probably have been reduced to an important commercial extent. While this phase of the fruit handling question has not been given careful experimental attention, we feel justified, from the results of our Fruit Storage Investigations and from the emphasis laid upon this question by the Canadian government and other foreign countries in their export fruit work, in expressing the opinion that a large proportion of the commercial losses in the handling of perishable produce is the direct result of the rapid ripening and the spread of disease which takes place while the fruit is warm and before it can be cooled by the ice in the cars. A meat shipper would not think of loading a carload of meat in a warm condition, and if the fruit grower could devise some practical method of cooling the fruit before it is loaded, as the shippers of meat do, and if the refrigerator car is expected only to maintain the cool temperature in transit and not to do the initial refrigeration of the fruit, many of the serious problems that now confront the shipper of perishable fruits would be reduced considerably.

I do not care to discuss the ways and means of bringing about this result at this time, as I wish only to bring the matter to your attention, so my "Last Word on the Picking and Storing of Fruit," as your Program Committee has chosen to designate this paper, is: First, know what to expect of your fruit from the conditions in which it is grown; let it ripen well before picking; handle it carefully and cool it quickly after it leaves the tree, and you will have greater occasion to rejoice that you are in the fruit business.

Long and Short.

For clematis write to P. W. Butler, Penfield, N. Y.

Apple and pear seedlings may be had of N. E. Copeland, Oakland, Kan.

H. S. Day, Fremont, O., will bud peach trees on contract for fall of 1905 delivery.

June bud peach and plum can be had of Chattanooga Nurseries, Chattanooga, Tenn.

Bartlett pears will be exchanged for peaches by Davis County Nurseries, Salt Lake City, Utah.

Fredonia-grown grape vines are known the world over. Write to Foster & Griffith, Fredonia, N. Y.

Buds of leading varieties of apple, pear, peach, plum and cherry may be had of B. F. Kean, Stanley, N. Y.

In another column, Jackson & Perkins Company, Newark, N. Y., announce an attractive list of specialties.

A bargain in standard pears, extra size, is offered by the Pioneer Nurseries Company, Salt Lake City, Utah.

C. Betscher, Canal Dover, O., is a peony specialist, guaranteeing everything in his line true to name. Write him for prices.

J. C. Hale, Winchester, Tenn., has 4,000,000 peach trees, the largest stock in the United States. June buds a specialty.

Pecan trees and nuts may be obtained of the G. M. Bacon Company, Inc., DeWitt, Ga. Budded, grafted and seedling trees.

Nurserymen will be interested in the announcement in another column of the Pittsburg Bolster Spring Company, Pittsburg, Pa.

The Forest Nursery & Seed Co., Irving College, Tenn., makes a speciality of catalpas, black locust, Russian mulberry, red bud, etc.

Imported seedlings and raffia fibre may be had of August Rölker & Sons, 31 Barclay Street, New York, agents for Elmore Sebire, Ussy, France.

For fall of 1904 the Franklin-Davis Nursery Company, Baltimore, Md., offers a general assortment of well grown stock; apple, pear, cherry, plum and ornamentals.

One of the largest and most complete assortments of nursery and florists' stocks in the United States is offered by the Storrs & Harrison Co., Painesville, O. See their announcement on another page.

Johnson Bros., Quitman, Ga., write as follows to Maher & Grosh, Toledo, O.: "Mr. J. H. Girardeau, of Monticello, Fla., informs me that you have on hand the best budding knife that there is on the market. He says that he uses them and none else, and that they are very cheap, on account of their not having anything but a small wooden handle. Please give us prices on same."

How many of those who gaze at beautiful shows of fireworks know the composition of the brilliant candle balls, bombs, rockets, fiery showers, serpents and wheels with their gem-like colorings? Frances E. Fryatt, in a most interesting article in *The Youth's Companion* of June 16th, tells how "The Colors and Motions of Fireworks" are contrived. This contribution will lend a fresh interest to the celebration of Independence day for every *Companion* reader.

THE WABASH RAILROAD

Has added one more Fast Train to its present excellent service to St. Louis. The New Train, 'The World's Fair Flyer' will, on and after June 26th, leave Buffalo daily 1.30 P. M., arriving Detroit 7.45 P. M., World's Fair Station 7.50 A. M., Union Station, St. Louis, 8.04 A. M. next morning. The Wabash is the only line from the East running directly to the Main Entrance of the World's Fair Grounds. Superb equipment, Pullman's newest type of sleepers, electric lighted chair cars, Wabash Dining cars.

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Buffalo, N. Y.

THE USE OF ORNAMENTALS.

Prof. John Craig made the following address at the Atlanta Convention on the use of ornamentals:

The nurserymen, the manufacturers of nursery stock, like the manufacturers of boots and shoes and clothing, shape the fashions of the day. In this regard they carry a heavy responsibility. Do they realize this. Newspapers are said to reflect public opinion. More often they mould it. Nurserymen, perhaps not to the same extent, are influential, and shape public demand to a large extent.

How much have the shapeliness, the general salability quite apart from utility, beauty and durability to do with the rapidity of multiplication?

Take the Carolina poplar. Thousands, perhaps millions, of this quick-growing, short-lived, borer-infested trees are sold for street trees, boulevards and parks. Does the sale of this tree permanently advance tree planting enterprises? It is true that the tree has its place; it may be used for quick effects, for a filler between slower growing permanent trees; but too often it is set out as a finality, as a finished product.

Then there is the box elder. It has its virtues: Rapid growth, ruggedness, generalability to withstand neglect and a self-efficiency wanting in many forms vastly more valuable. This tree has had its day in the cities, but it is still being planted in country places in preference to its vastly superior related soft maple and its beautiful and long-lived cousin, sugar maple. Again, in selling the box elder in the North the relative hardiness of geographical varieties is overlooked. Box Elder of Ohio and the South will often freeze down north of the 42d parallel, while the northern form is perfectly hardy.

Native trees, as a rule, are superior to imported types of the same genus. For example, the European elm does not compare in stately beauty with the American elm. Neither is the Scotch elm which I see planted in Atlanta streets, equal to our own citizen. European linden is much inferior to *Tilia Americana* in durability, size and general luxuriousness. Norway spruce has many excellent points to commend it, but we have only to examine the old specimens of the plains to note that it has passed its meridian and is on the wane, while the native white is but approaching the fullness of its stature.

These are a few of the striking cases where the nurseryman can do much to mould public opinion along right lines, bearing upon public utility and public beauty.

Along the line of æsthetics in planting, how many lawns have been rendered unsightly by the planting of vegetable monstrosities in the form of cheap and distinctly ugly weeping trees. Perhaps the weeping willow is the most obtrusively objectionable. It is omnipresent in the smaller towns. The mountain ash is an improvement, but has many years of ugliness before its base stem and contorted outlines are obscured. The weeping form of the white birch is pleasing, but its life is short and borers often make it full of trouble. Among the more permanent and desirable forms are the drooping beeches and elms; but even these can be overdone.

Cannot the nurseryman do more than he is doing at the present time towards educating the public toward an appreciation of the really beautiful and the relatively permanent among trees set along streets and in parks.

The tendency is to yield to the public demand for quick results and propagate for sale cheap, short-lived shade trees.

Finally, let us use our influence in moulding public taste, in the matter of lawn planting, so that trees shall be set more for their intrinsic qualities of beauty and endurance rather than from the standpoint of the incongruous and curious.

NURSERY STOCK IMPORTATIONS.

Hiram T. Jones, Elizabeth, N. J., addressed the Atlanta Convention as follows:

For many years it was a pet theory of mine that somewhere where in this broad land of ours would be found the combination of soil and climate that would permit the propagation especially of seedlings and of cutting plants, both deciduous and evergreens, which in quality and price would compare favorably with the supplies we now receive from Europe.

It is true that apple seedlings are produced in the United States in such quantities and at such prices that in average years with our present duty, prevents the importation of them in large quantities.

With this single exception I do not think that in seedlings of fruit stocks the European grower finds the competition of the American grower difficult to meet, and this I believe is equally true in the ornamental department, furthermore I do not expect to see these conditions changed for a long time to come.

If, then, Europe is to be the chief source of our supply of what I may call our raw material, how may we best safeguard our own interests in our importations?

As we have become the chief customer for the immense quantities of seedlings, etc., grown by the European nurserymen, the natural effect of the laws of trade will in time regulate this question. The matter of packing for the trying ocean trip and equally trying land transportation under the trying conditions of our fitful American weather has been well met by the prominent European growers.

The matter of fungous and insect infestation is a more important question and has not received the attention the gravity of the matter deserves. I can remember one important importation of pear seedlings to Western New York nearly a quarter of a century ago that brought a pest with it that has cost much more to fight than the first cost of the large purchase.

We have been unduly disturbed by the San Jose scale which has come from nowhere and is now nearly everywhere—and yet within three years I have known of three importations from three different sources of the European Pear scale which is nearly as bad and in at least one case during the last winter upon Apple seedlings with the roots fairly destroyed with crown gall our American custom house department collected \$1.00 per 1000 and 15 per cent. and kept it I have no doubt.

I do not believe in impracticable legislation and we nurserymen are unfortunate in our efforts to secure any federal legislation in our fight against noxious insects. I do believe, however, that our government should take possession of and destroy nursery stock imported which our State Entomologists pronounce to be infested with dangerous fungous or noxious insects and should refund to the importer within a reasonable time any duties that have been paid upon such nursery stock.

Homes in the South

There are in the Southern States awaiting development, thousands of acres of uncultivated farm lands in tracts of all sizes, which can be purchased very cheaply. They are productive, healthy, and close to good markets. In ten States reached by the lines of the

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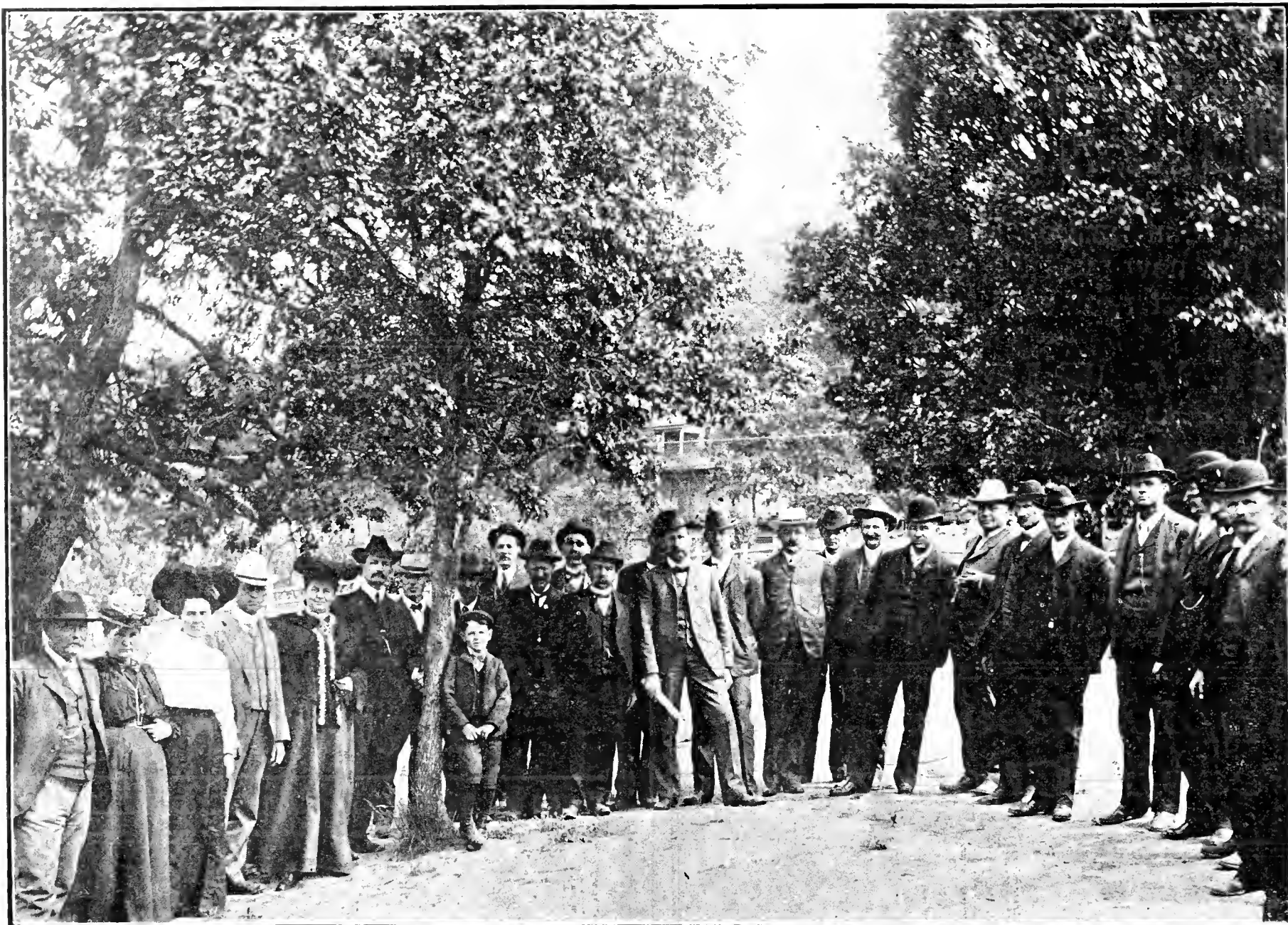
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CONVENTION OF PACIFIC COAST NURSERYMEN'S ASSOCIATION IN SESSION AT HOOD RIVER, ORE., JUNE 1, 1904.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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"The American Association could do much by concerted effort."—N. W. HALE.

Vol. XII.

ROCHESTER, N. Y., AUGUST, 1904

No. 8.

IMPORTANT FRUIT REGIONS OF THE PACIFIC NORTHWEST.

We are glad to present as a frontispiece this month a view of a fruit grower's association, instrumental in developing the now rapidly becoming famous Hood River Valley and other fruit regions of Oregon. As an example of the efficacy of co-operation in marketing fruits the methods of Hood river fruit growers are worth studying a very full and instructive account of this new fruit empire of the Pacific Northwest is found in the last report of the American Pomological Society. The following is furnished by our contemporary the *Northwest Horticulturist*:

TOPOGRAPHY.

Just east of the crest of the Cascade mountains lying both south and north of the Columbia river, is a basin peculiarly differing from lands lying farther east and also from those on the west of this dividing range. The south, or Oregon side, has become the famous Hood river district by means of the quality and the quantity of Clarke seedling strawberries, the Spitzenberg and the Yellow Newtown apples grown and shipped. On the north or Washington side, the land is very similar and the same kinds and quality of fruits are being raised.

This basin extends about 30 miles on each side of the river with Mt. Hood on the south and Mt. Adams on the north affording ample water for irrigating purposes through each of Hood river and White Salmon river. The soil is volcanic ash, the altitude and the breeze from the Pacific ocean affords suitable temperature and moisture for the production of fruit of high quality. The rain fall is from 25 to 30 inches, enough when the ground is properly cultivated, for the production of apples and for strawberries, irrigation develops and enlarges the crop.

IRRIGATION A FACTOR.

A large ditch has been completed in the Hood river valley at a cost of \$46,000, which furnishes ample water for the land covered. On the Washington side, numerous small tracts lying along the Columbia river bank are watered from springs flowing from the steep hill sides. These sand bars produce the earliest strawberries shipped from Hood river, while they are also profuse yielders. In the White Salmon river valley no attempt has yet been made at irrigation, but conditions are very favorable and many acres of valuable land await the hand of the tiller to make them equally productive to those of famous Hood River Valley.

STRAWBERRIES AN IMPORTANT CROP.

The average yield of strawberries at Hood river is perhaps less than 150 crates per acre, the fruit is only of medium size and tart. One of the representative growers reported a yield of 700 crates on six acres last season, yet this crop has made this section famous. Some of the notable features of success

may be attributed to the fact that the fruit under good cultivation is a sure annual cropper. It is an excellent shipper and the growers are extremely careful to grade and ship the fruit in uniform style. These are points which might with profit be imitated in other localities, also with other classes of fruit. Another lesson from this section is that diversity to the extent of at least two kinds of crops is far better than a single crop system. Berries suitable to a given locality with some one or two varieties of the larger fruits may be safe and profitable.

In the last report of the American Pomological Society will be found a fuller account of this region.—Ed.

AMERICAN PLANTS FOR AMERICAN NURSERYMEN.

The illustrated address by Harlan P. Kelsey under this title before the nurserymen at Atlanta, was an exceedingly interesting feature of the evening session. Mr. Kelsey spoke with all the earnestness of a born lover of plants. His address was a strong and convincing plea for the greater and more liberal use of the hardy and beautiful trees and shrubs of our own fields and woodlands. The address was richly illustrated with lantern slides prepared jointly by Mr. McFarland and Mr. Kelsey. We are glad to append a partial list of the trees, shrubs and plants illustrated:

American Trees and Shrubs.—Liquidambar styraciflora, sweet gum; Thuja occidentalis pyramidalis, pyramidal American arbor-vitæ; Robinia pseudacacia, yellow locust; Kalmia latifolia, laurel; Rhododendron maximum, great American rose bay; Rhododendron punctatum; Pinus strobus, white pine; Leucothoe catesbaei; Vaccinium macrocarpon, cranberry; Quercus coccinea, scarlet oak (flowers); Buereus palustris, pin oak; Ilex cassine, southern holly, (in hedge), Clethra acuminata, southern pepper bush; Quercus virens, live oak in magnolia cemetery, Charleston, S. C.; Cornus florida, flowering dogwood—four slides showing flower, fruit and tree in winter and summer; Azalea nudiflora, pinxter flower, Crataegus coccinea, white thorn; Oxydendrum arboreum, tree andromeda.

American Herbaceous Plants.—Galax aphylla, Osmunda cinnamomea, cinnamon fern; physostegia virginiana, limodorum tuberosum, grass pink; Trillium grandiflorum, Sarra-genia flava, yellow pitcher plant; Cimicifuga racemosa, American bugbane, Lilium carolinianum, Carolina lily; Convolvulus bona-nox, wild morning glory.

BUSINESS MOVEMENTS.

Mr. D. W. Wittpenn of the firm of McHutchison & Co., of 218 Fulton Street, New York, sailed for Europe on the S. S. Kaiser Wilhelm II., on July 12. The trip was undertaken in the firm's interests.

IMPORTANT**Report of Special Committee on Legislation, appointed for the
Purpose of Studying the Validity of the Nursery License
Laws of Virginia, West Virginia and Michigan.**

BY WILLIAM PITKIN, CHAIRMAN OF SUB COMMITTEE.

ROCHESTER, N. Y., June 10, 1904.

To Mr. C. L. WATROUS,

Chairman of Legislative Committee for 1904-5,

Des Moines, Iowa.

DEAR SIR:—

At the Detroit convention of the American Association, a resolution was passed referring to the Committee on Legislation the subject of license laws governing the importations of nursery stock in Virginia, West Virginia and other states, with authority to secure a legal opinion as to the validity of such legislation, and with power to arrange for test cases if necessary, and to expend the necessary funds.

The Legislative Committee decided to secure a legal opinion, and at the request of the chairman of the committee, I secured an opinion from attorneys of Rochester, Messrs. McGuire & Wood, copy of which is attached. The opinion was discussed by yourselves and other members of the committee, and it was decided that under the opinion of the attorneys, the laws of Virginia were valid and could not very well be attacked. It was further decided that there were good grounds for opposing the laws of West Virginia and Michigan, and that it was deemed advisable to arrange for test cases in those states if possible and after that decision was reached the details of the matter were left in my hands, and I now beg to report as follows:

**SPECIFIC REPORT AND RECOMMENDATION—WEST
VIRGINIA.**

The West Virginia statute requires a payment of a license fee of \$10.00 in each county, and further, that all stock entering the state should be fumigated.

The West Virginia authorities were notified that this committee would advise the members of our Association to attach to each package going into the state the regular inspection certificate, and say to them that we should decline to pay the license and should decline to fumigate, believing that the provisions of their law were unconstitutional, and that we should be glad to arrange for a test case.

The authorities of West Virginia have evidently not been anxious to test the law, and although numerous efforts have been made to arrange for a test case it has been impossible to secure one. The committee has learned of numerous cases in which threats of arrest have been made, but thus far it has been impossible to locate any actual arrest and thus bring about a test case.

MICHIGAN.

The Michigan law requires that every nurseryman or dealer doing business in the state, whether resident or non-resident must file a certificate and pay a license fee of \$5.00, and our attorneys advise that these requirements are reasonable and valid and that the members of the Association should comply with them. The Michigan law further requires that all nursery stock shipped into the state must be fumigated and bear the certificate of the shipper that it has

been fumigated. This provision does not apply to Michigan grown nursery stock, and our attorneys advise us that it is unconstitutional and invalid as an attempted regulation of inter-state commerce.

The statute further provides that a bond of \$1,000.00 must be filed, conditioned on full observance of the law in all particulars and our attorneys' opinion is that this provision is invalid and cannot be enforced because filing of the bond is not necessary to the proper carrying out of the inspection purposes, and further that the bond requires compliance with all the provisions of the law, some of which are plainly unconstitutional and invalid. They advise us to file the certificate, pay the license fee, and decline to give the bond as furnished by the Michigan authorities, and also decline to fumigate the stock and attach the fumigation certificate.

Our attorneys suggest that the form of bond furnished by Michigan authorities may be modified as follows: The bond reads: "Shall fully in every respect comply with all the provisions of an act of the legislature of the state of Michigan, etc." They suggest amending this wording so that it will read as follows: "Shall fully and in every respect comply with the lawful provisions of an act of the legislature, etc. The point being that the insertion of the word "lawful" relieves us from any liability for failure to perform any act specified by the law, which is invalid and illegal, and that if any attempt were made to collect under the bond, that it would be necessary for them to show that the provisions of the law requiring fumigation were legal and valid before any judgment could be secured.

Our attorneys advise that it would be safe to file this bond with that change, and that if any trouble should be made on account of the bond, it would at once bring up the question for a test case as to the validity of that part of the statute requiring fumigation.

The Michigan authorities were promptly advised of the position of the Association and were told that the nurserymen had no desire to evade any valid law or any reasonable requirement, but that this Association felt that the outside nurserymen were discriminated against in favor of the Michigan nurserymen, and that in the opinion of our attorneys the law was invalid and unconstitutional, as an attempted regulation of inter-state commerce. Numerous attempts have been made to arrange for a test case, but the Michigan authorities evidently are not anxious to test the law. Several of the Rochester nurserymen have declined to file a bond and have omitted to fumigate the stock, and although threats have been made, no trouble or loss has been suffered. One of the members of the Association received a notice during April from a party with whom they had arranged to handle the delivery, that Mr. L. R. Taft, state inspector, in Michigan had served a notice on him forbidding him to handle the delivery unless he filed a bond and secured a license. The goods for delivery had been shipped and this seemed to be an excellent opportunity for arranging a test case, so that the attorney of the Association was immediately sent to Michigan to handle the matter. Under the instruction of our attorney the delivery was made and the attorney general of Michigan promptly notified by our attorney that the delivery had been made and the law had been violated, and the man was ready to be arrested, but the attorney general has taken

no action on the matter and evidently has no confidence in the validity of the statute. Other efforts have been made to arrange with Mr. Taft for a test case but without avail.

In the opinion of the committee it is reasonably safe to ship goods into Michigan without fumigation, but we would advise that the certificate be filed, license fee paid, and the bond filed with the change previously suggested, and we believe that no trouble will be made for any member of the Association if this course is followed.

VIRGINIA AGAIN.

One more word in regard to the state of Virginia. The question has been asked whether a wholesale nurseryman doing business, for example, in Rochester, can ship to a wholesale customer located at Richmond, Va., without paying the Virginia license tax of \$20.00. The opinion of our attorney is that if the Rochester nurseryman received the order by mail from the Virginia nurseryman, and accepts the order by mail with the understanding that the goods are sold F. O. B. Rochester, the sale is made in Rochester, the delivery is made in Rochester, and the Virginia law cannot apply to business done outside of the state of Virginia, and that the Rochester nurseryman was under no obligation to take out a license in Virginia for transactions of this character. Further that he could fill the order, ship the goods F. O. B. Rochester, taking a bill of lading, and that his responsibility would then cease, and if any trouble occurred that it would not alter the responsibility of the nurseryman in Virginia for the amount of the invoice. That, of course, after the goods reached the state of Virginia without a certificate tag, the Virginia authorities would have the right to hold them up and examine them, and handle them according to law, but that would not interest the Rochester nurseryman, but rather the Virginia nurseryman would be responsible for the Rochester man for the amount of the bill.

SUPPLEMENTARY REPORT.

DES MOINES, IA., July 29 1904.

MR. C. L. WATROUS

DEAR SIR:

A short statement supplementing my report to you under date of June 10, 1904.

Since that report was made an opportunity presented itself whereby it was thought possible to secure a test case in the state of West Virginia. An agent of Chase Brothers Company, Mr. Wm. A. G. Bryan, of Swann, West Virginia, was arrested in that county for violation of the West Virginia license law, and was taken before Anthony Bicker, Justice of the Peace for Myron District, Cabell County, West Virginia. The case was handled by the attorneys of the Association, Messrs. McGuire & Wood of Rochester, through local attorneys, Messrs. Sims & Enslow, of Huntingdon, West Virginia.

Messrs. Sims & Enslow appeared at the hearing and made the point that the law did not apply to the agent but to the principal, and in consideration of this defense the Justice discharged the defendant, holding that the law did not apply to the agent but to the employer.

The decision is good so far as it goes, but it was hoped that the justice would decide against us so that we might be possible to get the case into a higher court. That does not seem to be feasible at this time.

It will probably be well for the trade interested to take a memorandum of this case and advise their agents accordingly, and if the authorities in West Virginia understand that such decision has been rendered it is likely that they will be somewhat slow in attacking agents in the future. The law, as it reads, is certainly perfectly clear and plain, and the requirement as to license applies plainly to the employer and not to the salesman.

Yours very truly,

WILLIAM PITKIN,
Chairman of Sub Committee.

NURSERY CONDITIONS IN GEORGIA.

CHARLES T. SMITH, CONCORD, GA.

Read before the annual convention of the American Association of Nurserymen in Atlanta, Ga., June 22-24.

A nurseryman, when traveling, always feels a lively interest in the progress of nursery work in any country that he may be visiting and we know that you are all interested in what we are doing here in Georgia, so at the request of your committee on program I will take a few minutes of your time and tell you of nursery conditions of Georgia. When I am in New York or in the west I want to know just what you are doing there in the nursery business and I am sure when you come south you feel the same interest in what we are doing, as you want to carry back with you correct ideas of what is being accomplished in your line of work here.

You last met in the south just twelve years ago when you held your convention in this same city. The nursery business here at that time was in its infancy as compared with present conditions. The business has made steady and strong growth in those twelve years until to-day there are probably ten times as many trees grown in the state as were grown in 1892. At that time there were about twenty-five nursery firms in the state, while there are to-day about two hundred firms in the business, according to reports of the State department of Entomology. It will be understood that the great majority of these growers produce only in a small way, or as a side line to other work, just as it is in all parts of the country. There are only a few firms who are in the business on an extensive scale.

As a nursery state, Georgia has forged to the front in the past few years and until to-day she leads all the Southern States in the production of young trees. It is estimated that there are growing here this season over 20,000,000 nursery trees, which number is surpassed by only a few of the Northern States. This large increase in the business has taken place mainly in the last five years and has been called into existence chiefly on account of the immense demand for June budded peach trees. The great bulk of the stock grown is of this class and perhaps more than half of the firms engaged in the business in the state are growing June budded peach exclusively. In the production of this class of stock Georgia leads all other states. The immense planting of commercial peach orchards in this and adjoining states has created a demand for cheap trees and the June budded peach supplies the demand satisfactorily. Our nurseries furnish trees not only for the demand within the state but are shipping millions of them to other parts of the country.

THE PEACH INDUSTRY.

The growth of commercial peach orcharding in the south for the past few years is unparalleled. It is estimated that there are nearly 16,000,000 trees growing in the orchards of Georgia. Less than half of these trees are now in bearing but the crop of peaches in this state has been variously estimated at between 5,000 and 6,000 carloads. You see we are doing our part here toward feeding the world on this the queen of all fruits. If the peach produced a full crop every year it might be said that we have enough planted for the present, but between spring frosts, brown rot and other maladies to which the peach is subject, we hardly

get a full crop all over the state oftener than once in five years. For the intervening four years we usually have a part of a crop which generally brings a good price, thus making up a satisfactory profit to the growers.

The Elberta has been planted almost exclusively in the past, but orchardists are beginning to realize that the market calls for something earlier and also for something later than Elberta. Right here is the nurseryman's opportunity and the man who will introduce an earlier or a later variety that will equal Elberta as a market peach, can move up on "Easy Street" at once. A number of new varieties have been offered in recent years that gave much promise but none has come quite up to the mark as yet, so this rare and golden opportunity is still open to all enterprising nurserymen.

We have a number of nurseries in the state which have a large and growing trade in general stock handled either through agents or by catalogue and this class of business seems to be generally in a prosperous and progressive condition. They are covering the field pretty closely and together with similar firms in other southern states are earning for the general trade in a satisfactory manner. There is no boom work in this class of the business. It is holding its own and making some progress. Our soils and climate are well suited for growing a general line of stock. Our nurserymen grow apple, pear, peach, plum, grape and other stock to great perfection. Peaches are of course our main line, though other stock grows equally well with us. Our long growing season, mild winters and cheap labor, stand greatly in the nurseryman's favor here in the south.

In ornamental and greenhouse stock but little has been done in this state. The nurserymen have confined their work mainly to the tree business. Only one firm in the state devotes any considerable attention to this department. There is a growing demand for this class of stock in the south, in the recent years of increased prosperity and the outlook for business in that line is good.

NUT TREES.

One branch of the business that is showing some special development just at this time in the pecan business. We have a few firms who are growing them exclusively in the southern part of the state and all our larger nurseries are increasing their plantings to meet the growing demand.

As regards the nature of the business done by our Georgia nurseries — it is mostly retail, or direct to the planter, either through salesmen, or catalogue. A number of our larger firms do some wholesaling, but it is mainly in the way of clearing surplus stocks, and we have nothing that could be classed strictly as a wholesale business.

THE OUTLOOK.

As regards the future outlook of the business, in a general way, I would consider it good. Some branches of the work may require some further adjustment to business and orchard conditions, but so long as this period of general prosperity lasts we may safely count on a reasonably prosperous time for the grower of nursery stock. Our best posted growers realize the importance of not booming the business, as a boom period in any line is almost sure to be followed by a period of depression, and any nurseryman of ten years' experience can tell you something about over production, low prices and

little profits. Georgia nurserymen don't want a reproduction of the three-cent pear and cherry trees of ten years ago.

LEGISLATION.

Our state was one of the first to adopt strong laws for the protection of the nurserymen and fruit growers from the spread of insects and diseases. We were fortunate in securing a thoroughly earnest and capable entomologist who very wisely and judiciously enforced the laws. To some, these laws may have appeared too drastic but they have served well the purpose for which they were enacted and have been a great help to our nursery interests. By a recent change in the office of state entomologist we are given a new man whom we have reason to believe will continue to give us the same effective and considerate enforcement of our state laws as we were given by former entomologist Mr. Scott.

There is a vast field of usefulness open to the nurserymen of the south as well as the north. As you know, it is difficult to find a real first-class well-cared-for orchard of selected varieties of fruit. We find fruit trees of some sort at almost every home where there are a few feet of ground unoccupied by buildings, but in almost every case these trees are of poorly selected varieties gathered up from odd sources, perhaps the principal recommendation being that they were cheap, or cost nothing. There is an immense work laid out here for the nurseryman both south and north, to introduce better methods and better trees and bring about an improvement in the orchards that surround the homes of our people. There is a broad field for advancement along this line and the nurseryman is the man to push it.

FINANCIAL CONSIDERATIONS.

Are we prosperous? That is hard to say in a general way. One of our southern delegations is slated to ornament the next United States Congress while others are accepting various positions of honor and trust. Most of us are getting along reasonably well. We have a good field for our work here in the south. With cheap labor and cheap lands, we are enabled to produce nursery stock at low prices. Our people are in need of better orchards and we are doing all we can to help them along in that line.

I have always considered the nurseryman an underpaid public servant. When you think of the many high qualifications that are necessary in a first-class nurseryman, you will find that he is competent to fill any position from the highest to the most lowly; any place, from governor of the state to day laborer or from commander of an army down to private in the ranks. To manage the nursery business successfully, some of the many things that are required in the way of capital and capability, are energy, industry, cash, clear grit and business acumen. Then amongst many other things it is necessary that he be a lawyer, business manager, farmer, botanist, entomologist, chemist and in fact must be the master of more lines of learning than are required in any other business or profession. He must be a strictly first-class all around combination man, capable of surmounting any obstacle that may arise and competent to command and successfully carry out his plans against any combination of disadvantages. To be a successful nurseryman, he must be all that and a great deal more. All this being true, I hold

that the nurseryman does not reap the just rewards to which he is properly entitled.

RETROSPECTIVE.

What have we achieved? We have planted millions of trees in the great commercial orchards of the south where are produced and marketed millions of dollars worth of fruit, giving employment to thousands of people, adding to the wealth of the country in a material way by making business for the merchant, the banker, the railroads and in fact giving a vitalizing influence to all branches of trade. We have also planted a million small orchards or fruit gardens around the homes of as many families throughout this southland; trees that are growing broad and healthful and yielding delightful shade and refreshing fruits for the home, thus adding to the charms of suburban and country life. These are monuments to the energy and enterprise of the nurseryman, but there is a greater work yet before us. There are more orchards to be planted in the years to come than ever before us. Finer fruits are to be produced than we have yet seen and improvements are to be made in all lines of orchard work. The nurseryman is the pioneer in that great work and will in future make himself felt even more than he has in past by marching in the front ranks of our industrial army.

LEADING NURSERYMEN.

This paper would be incomplete without a few words in regard to the men whose brains and judgment helped to place Georgia in the front ranks as a fruit growing and nursery state. (The magnificent progress of the great fruit industry of the state during the past score of years comes as the direct result of the capable generalship of a quartette of our most progressive nurserymen. These four pioneers might well be named here as G. H. Miller for the northern part of the state. Philip Smith in the middle part, S. H. Rumph in the southern part and P. J. Berekmans in the eastern part. Take out the efforts of this quartette of leaders and the fruit industry of the state would be set back twenty years.) What nurserymen have done in the past, they will do again in the future and we always expect to see the names of nurserymen written high on the triumphant banner of the foremost regiments of the army of industrial progress.

THE DELAWARE FRUIT CROP.

The special agent of the Delaware railroad has just completed the estimate of the peach and pear crop from which it appears that the yield of peaches will be fair, about equal to the crop of 1902, and that of pears about half of that of 1902. Everything is estimated by baskets of about five-eighths bushels each. The yield of peaches in 1902 was 1,772,233 baskets, while the estimate for 1904 is 1,783,395. This is considerably larger than the crop for 1903. The pear crop is estimated at 300,550 baskets and is about half that of 1902, but larger than that of 1903. There has been no official estimate of the apple crop, but it will probably be a full average and about as large as the pear crop.

"In individual cases peaches have brought very much larger fortunes than any other crop, but the profits are not uniform. Previous to 1880, for several years, New Castle county was almost an unbroken peach orchard and the profits from the business were fabulous, but the disease known as the "yellows"

swept many of these orchards out of existence. This disease has, however, nearly disappeared and under a well enforced law which compels owners to dig up and burn infected trees, there is no longer fear of any serious destruction from this malady. The planting of peach trees is now steadily increasing; and while the orchards are smaller than they were twenty or thirty years ago, they are better tilled and pruned and may become as profitable. Apple growing is also increasing. The crop is much more regular and certain than that of the peach orchard and will open the average yield as much money."

This report is optimistic to say the least. Time was when Delaware did more to advertise peach growing in the United States than any other region in the Union. Yellows and carelessness practically wiped out the industry. It has been gradually reviving itself of late years, but in the meantime other regions have come to the front and the states to the south hold the supremacy, although peaches are not now regarded as a crop peculiar to any one section. Texas and Connecticut, Georgia and New York, vie with New Jersey, Michigan and Delaware in filling the great market of the country.—Ed.

DWARF VS. STANDARD PEAR TREES.

On private estates, where the question of superior quality is really the only serious factor to be considered in the production of fruit, we cannot see that there is any argument to be made in favor of the standard tree as against the dwarf or low head, says American Gardening. Speaking to an audience composed of those who were not concerned in commercial fruit growing, George T. Powell urged the planting of dwarf trees upon every consideration. He gave it as his opinion that the pear orchards of the entire Hudson valley from New York City up to Albany were absolutely ruined as a result of the continued attacks of the pear psylla, all of which could have been saved, if the trees had been low headed.

Hitherto, there has been considerable difficulty in procuring low-headed fruit trees in quantity, but the nurseryman will ever make it his business to supply what is demanded. A welcome change is noticeable in the fact that the leading nursery firms are prepared to fill orders for dwarf trees, and it is reasonable to expect that within a few years the dwarf headed fruit tree will be the ordinary thing in all first class country places, and in all probability, in commercial orchards, in the east, as well.

This strikes us as a very optimistic view of the situation. We are of the opinion that the day of the dwarf apple in America is a long way off.—Ed.

STOLE A WHOLE ORCHARD.

It is reported that at Lynnvillle, Penn., last month thieves made a wholesale raid and carried away all the young trees from an orchard on the farm of Etlar Davis, a well known farmer. Mr. Davis planted the orchard last spring and sustains considerable loss. No clue to the identity of the parties has been obtained. This is the second time that this kind of robbery has been perpetrated in that section.

R. T. O.

PROCEEDINGS OF THE TEXAS STATE HORTICULTURAL SOCIETY.

The Texas State Horticultural Society in nineteenth annual session was called to order at College Station, July 6, 1904, by President C. C. Mayhew. Prayer was offered by John F. Sneed of Tyler.

ADDRESS OF WELCOME.

Professor E. J. Kyle welcomed the Society in the following words:

"It seems rather formal for me to have to welcome the Horticulturists of the State to this College because every Horticulturist in the State should have a personal interest in this College, especially in the Horticultural departments and you should need no welcome to bring you here at any time of the year. We are attempting here at the College for the Horticultural Department to get in as close touch as possible with the practical fruit growers of the State because we realize that if we are to do any good, if we are to benefit the State in any way we have to do it by benefiting the practical grower. I doubt if all of you have realized the great and wonderful development that has gone on in our State within the last few years along Horticultural lines. In fact, I doubt if there has ever been a State that has seen as rapid and yet as sound development as this State has seen within the last fifteen years. We have come up from a place of no moment at all in the Horticultural world, until the eyes of the whole United States are directed towards Texas; and the great World's Fair at St. Louis, this year will put us more to the front than we have ever been before and it is very necessary that the Horticulturists all over this State come together and be banded together as closely as possible. We have to have some main head to work through. We should have some definite aim in view if we hope to accomplish anything in the future, if we hope to organize the great Horticultural interests and development that is going on in our State. We should feel more like a band of brothers because I believe Horticulturists all over the country are closer to each other than any other Agricultural organization at least, and we must be that way in this State. We must come together and get information from one another. I do not believe there is anyone who parts with his information as readily as the Horticulturist and we want you to feel at liberty to come to this College at any time of the year and inspect the work that is going on here and take a personal interest in it. It is our duty and it is our business to experiment here along Horticultural lines and find out what new varieties are of the most importance to the State; to find out what are the best fertilizers to use, and in fact, to keep in the front along all Horticultural lines. If you have any experiment with any trees that you want to make, if you have a new fruit you want tested, if you have a new vegetable you want to bring before the people of the State, notify myself or Mr. Green that you will come here or send us seeds or plants and we will plant them on the grounds and give them the best attention we know how, so they will be before the public at any time. We want you to feel at home to stop off here and visit us at any time. We are attempting to get out among the growers as much as possible. In the last two

years, we have done a great deal of this, learning what is going on in the State. This summer we are very fortunate in having three of our students with Mr. Roland Morrill, who is giving them practical work on his place and expects to take them to Michigan with him. Mr. Morrill is very much interested in the work and wants some of our young men every summer, and we want you to take the same interest and always remember that you are welcome to the Horticultural Department of the A. and M. College."

Mr. John S. Kerr, of Sherman, responded to the address of welcome in a few well chosen words.

THE PROGRAM.

Mr. Fernando Miller and Mr. H. M. Stringfellow told of their experiences with fruit growing in the Lampasas Section. Mr. Stringfellow has originated a new grape, samples of which he displayed for the benefit of the members of the Society.

Prof. Hotchkiss, of the Troupe Experiment Station, gave his experience in grape culture in that section. Prof. Hotchkiss approves of the Munson Canopy Trellis three wire system for grapes, as it gives the foliage a chance to protect the grapes from the heat.

Recently a party of Texas Horticulturists, composed of E. W. Kirkpatrick, C. Falkner, E. J. Kyle, F. W. Mally, J. S. Kerr, F. T. Ramsey, and Sam. H. Dixon, visited California, and these gentlemen each gave ten-minute talks on the lessons learned during this visit.

Thursday's session was opened with a discussion of the "Future of Pecan Culture, Some Valuable New Varieties," by E. W. Kirkpatrick and Sam. H. Dixon. Mr. Dixon exhibited some samples of new varieties of pecans including the Gregg, the Wood, the Hamilton, No. 2, and others. Mr. Dixon also described the wonderful Texas exhibit of pecans at the World's Fair, which is attracting such favorable comment.

"The Duty of the Fruit Grower to the Texas Horticultural Exhibit at the World's Fair" was discussed by different members.

Mr. G. Onderdonk, of Nursery, spoke on the subject of "Mexican Horticulture," describing the Mexican methods of cultivation, pruning, etc.

The question of the Texas Exhibit at the World's Fair was again taken up and the sum of \$400 raised for this purpose.

The following officers were elected for the ensuing year: President, G. Onderdonk, Nursery, Texas; First Vice-President, Fernando Miller, Lampasas, Texas; Second Vice-President, W. A. Yates, Brenham, Texas; Secretary-Treasurer, Sam. H. Dixon, Houston, Texas.

CHANGE OF FIRM.

A pleasant letter from J. Wragg & Sons Co., Waukegan, Iowa, makes the following announcement:

"This will notify you that M. J. Wragg, on the 7th day of June, sold all his stock in the J. Wragg & Sons Co. to his brother, N. C. Wragg, together with his good will, etc., and has retired from the business contract with the present company, not to again engage in the business in this part of Iowa. The company has re-organized with N. C. Wragg, president, Mrs. H. Wragg, vice-president, and W. S. Monger, secretary. The outlook for future business is very encouraging. Iowa and the northwest now have a promise of yielding one of their old-time prosperity crops; and our company never was in a better shape to handle a large business. Our stock is the largest and best that we ever had to offer."

E. T. DICKINSON.

We are pleased to present a brief sketch of the principal events in the busy life of our friend, Mr. E. T. Dickinson. The innate modesty of the subject of the sketch, prevents us from offering a fuller account of a man who is an important factor in the nursery trade, and one whom we are proud to say, has been a warm ally of the NATIONAL NURSERYMAN, practically since it was founded.

Mr. Dickinson was born in New York City, August 10th, 1837; He began life in the iron and steel business and continued in that line until poor health forced a change of climate. For several years he travelled extensively, visiting nearly every country of Europe, and afterwards California, Sandwich Islands and China, to settle down finally in France at Chatenay, Seine as far back as 1868 he became interested in the growing of seedlings and young nursery stock for the American trade. In this line he has continued ever since, constantly enlarging to keep pace with increasing demands.

WHITE'S CLASS ADVERTISING A FEATURE OF THE ATLANTA CONVENTION.

An excellent example of the methods of the modern advertiser was to be found in the attractive room in the Piedmont Hotel, occupied by Frank B. White, President of White's Class Advertising Co., Chicago. The room adjoined the Convention Hall and it is safe to say it was one of the most popular resorts in the Hotel—cafe thrown in. Every one who went in came out with a button, a souvenir and a smile. Mr. White knows how to advertise. His last issue, the Nursery number is strictly up to date.

The frontispiece of the July number of THE NATIONAL NURSERYMAN was provided through the courtesy and enterprise of Mr. White.

ENGLISH MARKET MAY TAKE CANADIAN PLUMS.

P. B. Ball, Canadian trade agent at Birmingham, England, reports that frost has seriously damaged many of the English fruit crops. He says: "To ship plums to Great Britain would be a new venture on the part of Canadian fruit growers, but I feel certain such a venture would be attended with success. There is nothing to prevent certain grades of Canadian plums commanding a high price here, especially the larger varieties. Great Britain's crop last year was, of course, exceptional, but it was rather an inferior article, which brought a shilling per pound. The apple crop will be light and will be mostly absorbed by the cider markets.—*Montreal Star*."

Canadian plums were shipped to London as far back as 1896 but the venture was unsuccessful.—Ed.

NEW FRUIT COMPANY.

We are informed that the Muskegon Nursery and Fruit Growing Co., has been recently organized at Muskegon, Mich., with a capital of \$25,000 and over 300 acres of land. The names of the incorporators have not been furnished.

DOINGS OF SOCIETIES.

SUMMER MEETING OF TEXAS NURSERYMEN'S ASSOCIATION.

By JOHN S. KERR, SECRETARY.

SHERMAN, TEXAS, July 9, 1904.

To THE NATIONAL NURSERYMAN:

The Texas Nurserymen's Association met at College Station, Texas, July 6th and 7th, during the sessions of the Texas Farmers' Congress and also in joint session with the Texas State Horticultural Society.

There was a good attendance from over the state.

There were encouraging reports from all sections predicting good crops of all kinds, especially of fruits. All nurserymen report nursery stock in good supply and condition and also report a brisk trade.

Much interest was manifested in the Texas World's Fair Exhibit. After a rousing talk from S. M. Dixon, chief of the Horticultural Department of the Texas World's Fair Commission, pledges were given to the amount of \$365 to be used in keeping up these Exhibits. A similar amount

also was raised at the evening session of the Farmers' Congress, making \$685 in all raised for this purpose. The fund is designed to be used in employing persons in different sections who will make it their special business to gather up and forward the exhibits systematically to St. Louis, so that the supply may be kept up regularly. Officers re-elected for the ensuing year are: E. W. Kirkpatrick, president; B. L. Adams, vice-president; John S. Kerr, secretary-treasurer.



E. T. DICKINSON
Of Chatenay, Seine, France.

INTERNATIONAL APPLE SHIPPERS TO MEET.

The tenth annual meeting of the International Apple Shippers' Association will be held in Library Hall, Hall of Congress, Louisiana Purchase Exposition, St. Louis, Mo., Wednesday, Aug. 3, 1904, beginning at 10 A. M. The sessions will continue through Thursday. Officers for the ensuing year will be elected, papers read and discussed and the transaction of such business as may properly come before the meeting will occur. President, C. H. Weaver; secretary, A. Warren Patch.

The summer meeting of the Michigan State Horticultural Society was held on the grounds of the sub-station, South Haven on Tuesday, July 26. The program consisted of a field study of the fruits and addresses by Hon. C. W. Garfield, Professors Smith and Taft of the State Experiment Station, Hon. C. J. Monroe and Supt. T. A. Farrand, South Haven.

The annual summer meeting of the New York State Fruit Growers Association will be held at Oleott Beach on Aug. 25th.

I never expect to use any other knife when I can get a Maher & Grosh. Respectfully,

J. H. WHITE.

Lock Box 243, Pollock, La.

The National Nurseryman

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Correspondents from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

Address Editor, Ithaca, N. Y.

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ROCHESTER, N. Y., JULY, 1904.

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NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

A CHANGE OF EDITORIAL MANAGEMENT.

With this issue, the NURSERYMAN introduces a new editor to its readers. Mr. Ralph T. Olcott has retired from the company. In resigning, to devote himself more exclusively to other publishing enterprises, Mr. Olcott takes with him the good wishes of the Nurseryman Publishing Company. We thank him for his efforts on behalf of this Journal in the past and wish him unstinted success in the future. He has been responsible for the literary quality of the paper, and the merit it has earned should be credited to him.

However much we may regret the loss of our first editor, we very human-like proceed to congratulate ourselves upon the acquisition of a worthy successor. The name of John Craig is well known to nurserymen and fruit-growers of the United States and Canada. His acquaintance is wide; his experience is broad; his judgment is reliable. We remember that he was a nurseryman for a time after completing his college course in Iowa; that he then was elected by the Dominion government to develop the horticultural side of its Experimental Farm system; and that this was well done is evidenced by his bulletins and eight annual reports. We remember him, then, as a post-graduate student at Cornell University, later as professor of horticulture in his *alma mater*, the Iowa State College of Agriculture and Mechanic Arts, and now we have the pleasure of introducing him as successor to Professor L. H. Bailey in the chair of horticulture of Cornell University and editor of THE NATIONAL NURSERYMAN.

We wish the paper to grow into closer touch with the practical issues of the nurseryman's business, and we ask our readers to second the editor's efforts in this direction. While trade and commercial interests are paramount, they are not supreme. Help us to strengthen the practical side.

We extend our thanks to our many friends who have so cordially assisted us in the past and we trust that we may continue to receive their support and encouragement.

THE NATIONAL NURSERYMAN PUBLISHING CO.
(Incorporated)

EDITORIAL FOREWORD.

The incoming editor does not appear before the patrons of this Journal with a brand new editorial program. In the first place, he has not the desire nor perhaps the ideas; and, secondly, had these been given him, the time necessary to place them in systematic and concise form is lacking. Without design or well-defined plan, therefore, he comes into the NATIONAL NURSERYMAN'S circle with a strong desire to do that which appears right in the interests of both nurseryman and fruit-grower—and to do this with all his might.

The mission of this Journal is to act as a medium of exchange between nurserymen, a bureau of information for grower and planter alike. Primarily a trade journal, yet its sympathies are with the man who buys to make his home more homelike, or fills his orchard or vineyard, as well as the man who grows to sell. The interests of the two are inseparable. The better the tree the nurseryman grows, the larger his sales; the better the variety, the larger the demand. We would ask for the confidence of the grower and the planter on these matters of quality of stock and excellence of variety. Our columns

will be open to a fair, above board, discussion of methods and intrinsic values. Let the NATIONAL NURSERYMAN be a medium for the exchange of practical as well as commercial information.

* * *

It is probable that the experiment station aids the nurseryman less than the planter; yet the problems of the grower of trees are fully as numerous as those of the grower of fruit. This Journal would, if possible, bring into closer affiliation the nurseryman and the station worker. There is mutual benefit to be gained from the association. To this end a special department will be maintained for the purpose of reviewing briefly such experiment station publications as bear upon the work of the tree-grower and tree-planter. It is hoped that these reviews will be timely in order to make them useful to all concerned.

* * *

We would have it clearly understood that suggestions bearing upon the literary make-up of the Journal are not only gladly received, but warmly solicited. The paper must be thoroughly alive; it must be sane; it must be up-to-date and reliable. All these things it cannot be without your help. We confidently expect that not only will our subscribers be interested in reading the NURSERYMAN, but will wish to swell the news columns by contributing seasonable items.

HARDY FORMS OF THE PRIVET.

The widespread destruction of California privet by the severe cold of last winter directs attention to forms that are said to be hardiest. One of these is the type from the Amour region. This has had a limited distribution in this country, mainly through the Arnold arboretum and the horticultural department of the Iowa State College. Now Mr. Edward Teas of Joplin, Mo., announces that he has discovered a golden leaved variety of this hardy form. It is said to be as hardy as the type, and of vigorous growth. A ten year old specimen on Mr. Teas' grounds is said to have successfully withstood a temperature of 26 below zero.

THE GREAT CHERRY CROP OF NEW YORK.

The cherry crop of central and western New York has been phenomenally large. It was a common sight to see door yard trees and hedge rows of the Kentish or old English cherry type in the central part of the state abandoned to birds and brown rot. Not only were Morellos and Richmonds well laden, but the uncultivated seedling Mazzards were equally prolific. Loss did not occur where the fruit was grown especially for market. In the commercial cherry sections, the wide-awake growers contracted their crop with the canning factories early in the season at good prices and enjoyed a prosperous season. Others did not fare so well. It is probable that many cherry trees that bore good crops this season will never bear again. It was plain that often the crop was the "dying effort of the tree." The heavy yield, coupled with the influence of the severe winter, was too much for the trees.

The old Dominion Nurseries are offering California Privet in quantity in addition to Natural Peach Pits.

Attention of our readers is directed to the advertisement of "Mutual" in another column. This looks like a business opening of promise.

FROM OUR EXCHANGES.

The Box Package for Apples—An Influential British Grocers' Association Favors a Smaller Package than the Barrel—Only High-Class Fruit Wanted in British Market.

The Federation of (British) Grocers' Associations held a meeting in London recently at which they discussed the question of the packing of Canadian and American fruit. A resolution was brought forward and carried in favor of the packing of apples in boxes of a reasonable capacity instead of barrels. Mr. Dutton, of Chester, who introduced the subject, said the trade would find it more convenient to have the apples in smaller quantities. Although it might be said that the barrels were handy for transit, the store-keepers on this side wanted something that the average assistant could carry about, and by having smaller packages they could stock four or five different kinds of apples. Mr. Oliver urged the importance of the apples being of uniform size, and the contents properly graded in the same manner as the California plums.

An article written by Mr. G. A. Cochrane, of Boston, on this barrel problem, was read, in this the writer said: "I think this great scarcity of barrels is going to result in good to growers in the end. The barrel has always been a most unsuitable package to pack such delicate fruit in, as it gets an immense amount of abuse on all hands, in consequence of its being so easy to move from place to place by rolling. Another thing it contains too great a quantity of fruit, and in order to carry well a pressure has to be used that virtually bruises every piece of fruit it contains. . . . When one looks at the intelligence shown by the Californians and the Floridians in the matter of grading and packing of their fruits, as well as the inviting packages they use, one is forced to admit the utter lack of intelligence or an indifference on the part of growers of fruit in New England and the Middle States in this matter. No advancement whatever is discernible, as they continue in the old ways of their grandfathers adhering to the barrel, and with a little less honesty in the matter of packing of fruit. The Canadians are not much better, except in the use of better barrels, as they generally use new ones. They continue to try to market one-third to one-half of their apples that should never have left their orchards, and if they could only realize this, and that they would receive for one-third to one-half more for their perfect fruit than they now do, as well as saving the cost of packages, labor, freight, cartage and other charges on this worthless portion of their shipments—when they realize this and bring up their standards of quality, they will find their apple trees will yield them a profit to exceed anything they can raise on their farms.—*Montreal Star.*

THE OUTLOOK FOR APPLE STOCKS.

About this time of the year interest centers upon the apple-seedling situation. From the best information we can gather, the indications are that the supply is at least no greater than will be required—with a possible shortage in view. On this basis, prices are beginning to advance, and the prospects are that by early fall they will be materially higher than at present. It is known that several large growers have cleaned up their available supply and are not taking any more orders.

NEW FRUIT COMPANIES.

Ozark Fruit Growers Association—\$2,000. P. A. Rodgers, J. A. Taylor, E. L. Beal and others.

Baracoa Fruit Co., East Orange, N. J.—\$125,000. Charles A. Greene, Paul Munter, Joseph Gerradt.

Safety Fruit Picker Co., Rochester, N. Y.—\$5,000. Willis H. Coon, Charles L. Hunt and George C. Haines.

Thayer Fruit Co., Thayer, Ariz.—\$150,000. John Buchanan, E. J. Loop, Clark Hall, John W. Smith, F. M. Douglas, George Miley.

The Bostonia Fruit Growers and Packers Co., Portland, Me.—\$200,000. William S. Crosby, William M. Payson, Charles O. Burrows.

Eastern Washington Fruit Growing Co.—\$500,000. Theophil Albert, Walter H. Welden, Carl W. Moegling, Will H. Adams, and Friedrich C. Barth, all of Spokane.

Perla Vineyard Co., Napa, Cal.—\$50,000. Agnes Lemme, August Schilling, H. C. McPike, of Oakland, Claus Schilling, of San Francisco, and W. F. McPike, of St. Helena.

Articles of incorporation were filed May 4th by the Watrous Nursery Co., of Des Moines, Ia. The capital is \$20,000. The incorporators are C. L. Watrous and Charles A. Watrous.

Central Ozark Fruit Co., Springfield, Mo.—\$100,000. E. W. Pondexter, M. C. Holeman, H. A. Warner and J. A. Buffkin, of Topeka, Kan., John Combs and W. S. Thompson, of Springfield.

The Mill Creek Fruit Shippers Association, Mill Creek, Ill.—Capital, \$1,000. Shipment of fruits, vegetables, etc. Incorporators, G. W. Dillow, C. L. Lingle, C. L. Cruse, J. M. Miller, J. L. Goodman, J. H. Poole, L. A. Fink.

The Cauca Tropical Fruit and Fibre Co., Frankfort, Ind.—\$5,000,000. Frank S. Newby, president, Frankfort, Ind., John C. Hamilton, Warren C. Buell, J. E. Fisher, Crawfordsville, Ind. The company already owns a large banana farm on the eastern coast of the Gulf of Darien, Columbia, South America.

Utah Seedless Apple Co., Provo, Utah.—Capital stock, 50,000 shares, par value 10 cents. W. C. Scheu owns one-half the stock. Other holders, F. Dunn, Guy W. Mendenhall, W. C. Cooper, M. W. Roylance, Alva Nelson, Geo. Havercamp, J. M. Wilson, G. A. Storrs, Alex. Hedquist, L. O. Taft, Jacob Evans, T. C. Thompson, O. H. Berg and W. E. Bassett. —*American Fruits.*

WESTERN CLASSIFICATION COMMITTEE AT WORK.

We are informed by Chairman Albertson, of the Classification Committee, that a meeting of the Western Section was held recently, and that no changes in the classification of nursery stock were made. This will probably meet the approval of Middle State men. It appears that the special committee asked for specific changes or none at all. The negative was chosen by the Western men.

Mr. Albertson is of the opinion that the January meeting would be a good time to press for the change asked for, but denied at this time. He believes that such changes in classification should be made as it will make the Western schedule harmonize more closely with the Eastern classification.

We invite correspondence upon this important subject.

THE TRIALS OF THE IMPORTER.

ANDRE L. CAUSSE.

Read before Convention of National Nurserymen, held at Atlanta, Ga., June 22-24.

The broker or agent handling nursery stock, for account of foreign houses, does not always travel on a path strewn with roses, even if he sells roses, and many are the thorns that he has to contend with.

His correspondents abroad will invariably report failure of crops, or some crops, long before the selling season is at hand; the buyers in turn will be sure to be especially in need of those stocks that are reported to be in short supply, hence when footing up his sales, the agent will generally find that he has over-sold some lines of stock, while he has left onhand a sickening quantity of the plentiful ones. He reports his correspondence must follow until orders are properly adjusted and booked. A period of dullness will now occur of which the agent will take advantage to renew his instructions, about proper grading and packing of the stock and entreaties about earliest possible shipment to get the goods on this side of the ocean before cold weather sets in. But of late years, abroad, Mother Nature has not wanted to put on her winter coat till Christmas is near at hand, and by the time the first fall shipment of stocks reaches our shores, snow is flying over our Western States. The agent anxiously watches the mercury and could get rich if he could bet, that the arrival of a shipment will coincide with the appearance of a cold snap.

Uncle Sam steps in and gets in his fine work to add to the broker's torment. The consular invoice on which the duty is going to be levied has been honestly made at the price of sales, the shipper, if for no other reason, having no interest in undervaluing his goods, for he does not pay the duties.

You and I might think that the market price of foreign nursery stock is established in the producing districts abroad. Please disabuse your mind of such an erroneous idea. The market price is hatched on the ninth floor of the New York public stores by a government official, who has never bought or been offered a single stock in his life. I suppose that after brooding over a number of trade lists catalogues wholesale and retail, he takes the average price asked for each article and makes up his mind to call the figures arrived at the wholesale marked value of the stocks, unless maybe he goes out and consults a clairvoyant. This arbitrarily made-up market value is sometimes below but generally above the price at which purchases have been made in June, by level-headed nurserymen, importers of stocks. If some goods have been purchased by you, and invoiced above custom house market value, the agent has to pay duty on a higher valuation than actually required by the appraiser; for he has no right to reduce prices appearing on consular invoices; but if on some articles consular invoices and purchase price is under what the appraiser has decreed market value to be, then consular invoice prices are correspondingly raised, and a penalty imposed besides additional duty. If the advance reaches fifty per cent, goods may be seized by the government.

Imagine the position of the agent to whom goods are consigned when the first shipment of the season reaches him. He goes to the custom house, swears to the correctness of

the invoice he presents and remains on the anxious seat till the invoice has been liquidated, for not until then, does he know whether or not the powers that be have raised his invoice to the seizure point.

On subsequent arrivals and once posted on the market value as decreed by the infallible appraiser, the broker has the ability of which he does not fail to avail himself, to raise prices on consular invoices before making the entry, but how will his customer enjoy being made to pay duty on a higher valuation than appears on the invoice he has received from the foreign nurseries?

In my modest opinion, fruit stocks and rose stock ought to be on the free list as raw material. They are not fit to sell and bear fruit or flowers till budded, and this work gives employment to many hands. If I understand it correctly, the object of the protective tariff is to protect labor and industries. But tariff question is too broad a subject for me to enlarge upon in this short talk; nor will I speak to you extensively of the many steps the broker will have to take and the difficulties he will encounter to get the shipments from the steamer's dock to the refrigerator car, which finally will bring them to destination.

His uneasiness only ceases when the consignee finally reports that his goods are safely stowed away in his frost-proof cellar, and that upon inspection, stocks are found in good condition; properly packed, properly graded, properly counted.

You may think that I have drawn a pretty dark picture of the broker's work, worries and responsibilities. Believe me, I have not. Fortunately, there is a bright silver lining to the heavy cloud that hangs over the broker's head. I mean the unfailing kindness and good fellowship of the whole-souled broad-minded American nurseryman, who by his very life in the open, by his constant communing with nature, learns patience, leniency and forbearance, and judging by my own twenty years experience, overlooks the broker's shortcomings. His encouragements lighten an otherwise thankless task.

August Specialties.

Eugene Willett, North Collins, N. Y., announces a full stock of grape vines.

Ellwanger & Barry, Rochester, N. Y., are offering two year plants of Fay's Prolific currant.

Holsinger Bros., Argentine, Kans., are ready to contract raspberry plants in variety for fall delivery.

J. G. Harrison & Sons, Berlin, Md., offer an unusually large variety of budding wood. See ad. on last cover.

Henry A. Dreer, Philadelphia, offers a large stock of herbaceous peonies, also a full line of popular perennials.

John A. Young, Greensboro, N. C., and J. Van Lindley, Pomona, N. C., are in the field with offerings of peach pits.

Charles F. Meyer, 79 Warner street, New York, agent for Victor Detriche, Angers, France, offers advance list of fruit stocks.

Thomas Meehan & Sons, Dreshertown, Pa., announce that they are ready to book orders for apple, quince and pear seeds, Western and European apple stocks in addition to a full line of French pear, plum and cherry stocks.

QUIZ COLUMN.

THE HARDEST DEUTZIA.

What varieties of Deutzia, if any, are more hardy than the Crenata? The latter winterkills badly here in northern Ohio.

In answering this question, we are speaking from our experience of the past winter. We shall be glad to have the experience of growers elsewhere. In this vicinity, *Deutzia crenata* and *D. gracilis* were both considerably injured. They have flowered very sparsely this season and that only on the lower shoots. The variety which has shown up best after the cold of last winter is *D. scabra* var. *Pride of Rochester*. This has manifested very little injury from the severity of the test winter. Let us have the experience of other growers on this subject.—Ed.

DISEASED CLEMATIS.

What is the cause of clematis vines for the first season or two after planting, suddenly dying back to the ground, as they so frequently do, after making a good growth and sometimes blooming? They sometimes start again from the root and sometimes do not. What, if any, is the remedy?

The clematis often fails the first winter because the roots do not become thoroughly established and its death is due primarily to the weakening influence of the winter. It is also subject to fungous diseases; but we could not say in this instance in the absence of leaves, what is the destructive agent specimens which we might examine. If our correspondent will furnish us with specimens, we shall be very glad to look into the matter further.—Ed.

POWDERY MILDEW OF APPLE STOCK.

Millersburg, Ohio, July 11, 1904.
NATIONAL NURSERYMAN PUBLISHING CO.
Rochester, N. Y.:

Would like to ask through your columns as to the best method of controlling powdery mildew on apple stocks.

Yours truly,

T. T. FINNEY.

We are glad to answer Mr. Finney's questions. This fungus belongs to the surface or external feeding type. It is closely related to the powdery mildew that so liberally coats the lilac leaves in mid-summer or later.

As long ago as 1889, experiments were conducted in this country for the purpose of ascertaining means whereby it could be controlled. At first, ammoniacal copper carbonate was recommended. It was found that the disease could be prevented by spraying the stock with this solution at a cost of twelve cents per thousand. Later trials have established the fact that Bordeaux mixture is quite as effective as copper carbonate. Being cheaper and the method of preparation well understood, it is now generally recommended. The disease is especially serious in the southern states. Success in treating it depends upon (1) spraying when the leaves are about one-third grown, and (2) upon the thoroughness of the application. It may be necessary to spray four or five times at intervals of ten or twelve days.—EDITOR.

Fall Bulbs

FOR NURSERYMEN

We make a specialty of this line filling and packing from Tags ready for shipment. Send us an estimate of your wants and let us quote prices.

SPECIAL:

New Silver Ribbon Grass

The finest Ribbon Grass on the market. Perfectly hardy, does not turn green in hot weather and does not run to seed. Sample and prices on application.

James Vick's Sons
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CURRENT PLANTS

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GRAPE VINES

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK
FREDONIA, N. Y.

Pears! Pears! Pears! BARTLETT PEARS. One two and three year old, as fine as can be grown. Will exchange for Peaches, or sell at a very low figure. Write for prices in car or part car lots.

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Wholesale Grower and Exporter of

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Advance List for Fruit Stock now ready. Liberal percentage of Mahalab and Mazzard Cherries allowed.

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Correct trained fruit trees in all shapes and in the best kinds fit for this country.

Standard Apple, Pear, Cherry, Plum, Peach and Apricot Trees.



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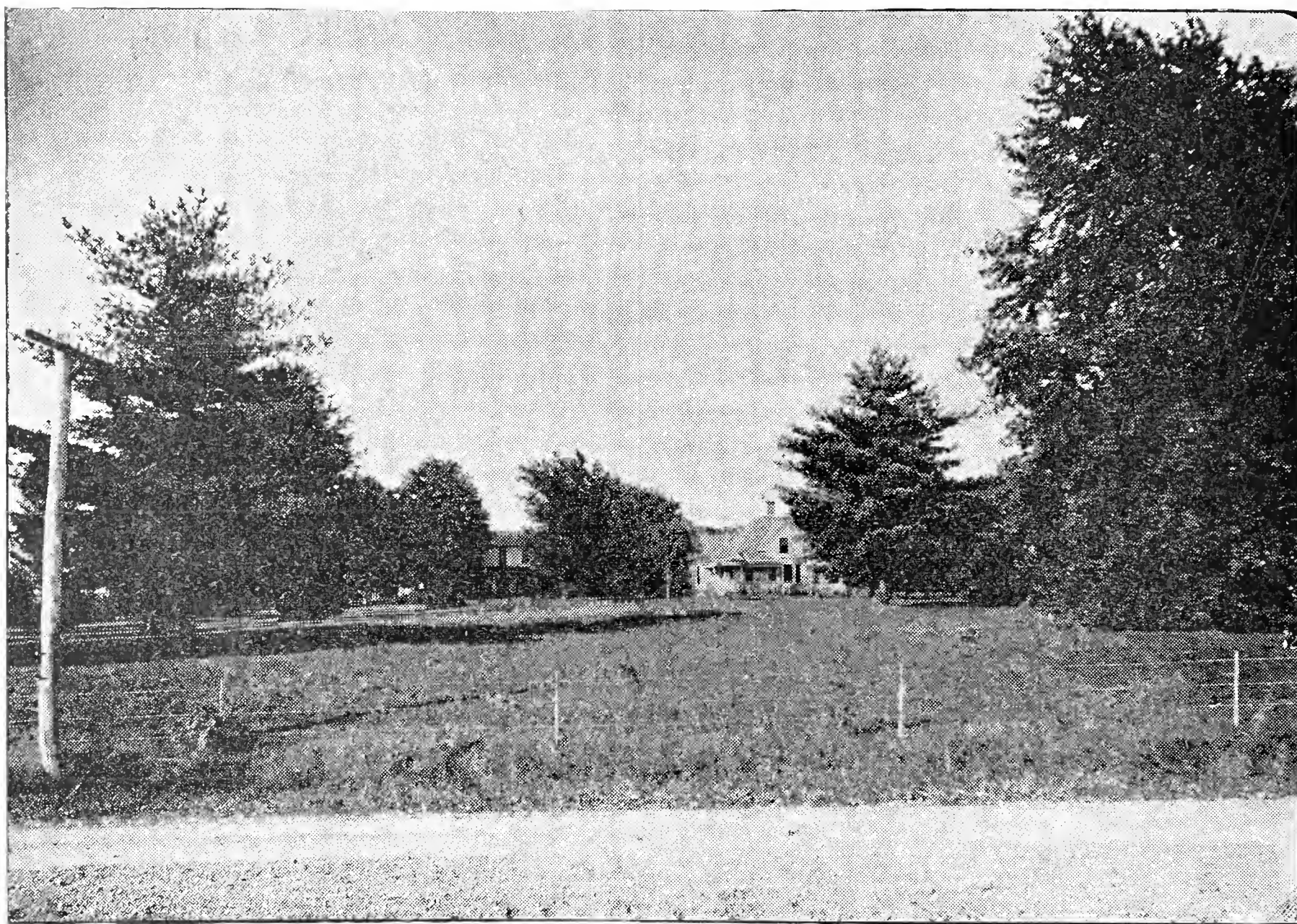
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HOME OF THE MEMBERS OF THE FIRM OF THE KNOX NURSERIES, VINCENNES IND.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XII.

ROCHESTER, N. Y., SEPTEMBER, 1904.

No. 9.

OUR COMMERCIAL RECORD.

THE KNOX NURSERIES.

A BRIEF STORY OF A SUCCESSFUL FIRM

The Knox Nursery of Vincennes, Indiana, was established in 1851 by Judge Archibald Simpson, and was the first nursery in that section of the country. The first planting consisted of 1,000 grafts—a very modest beginning. The success of the nursery was immediate and in those early days of its history many men came forty miles, or more, for trees. In 1867 Judge Simpson's two sons, James H. and Henry M., took over the management of the nursery. For ten years it was so conducted when Henry M. Simpson bought out the interest of James H. Simpson. From 1877 to 1894 Henry M. Simpson either owned the entire nursery, or a controlling interest, though the firm name was changed several times during that period. In 1894 Henry M. Simpson and his two sons, Harry D. and Robert A., took over the whole interest under the present firm name of H. M. Simpson & Sons.

Judge Simpson, the founder of this nursery, was born in 1802 and died in 1873. H. M. Simpson, the senior member of the present firm, was born in 1847 and grew up in the nursery business with his sons, now of the firm.

The product of the nursery has been and is now almost exclusively fruit trees. In 1894 over 1,000,000 grafts and seedlings were planted. For the past few years this firm has made a specialty of one year Cherry trees and their success has been remarkable in this particular line. Their soil is peculiarly adapted to growing Cherry, which, together with their special methods and constant attention enable them to put on the market a strong, vigorous stocky 4 to 5 ft. tree at one year old. And this too without the use of commercial fertilizer. One and two year Cherry and Peach are staples.

The firm now has 120 acres devoted to nursery products, and in addition, is planting 100 acres to apple orchard at Vincennes. The firm also owns 175 acres of apple orchard about thirteen years old, near Parkersburg, Illinois. This is one of the best orchards in Illinois because of its up-to-date treatment—being pruned, cultivated and sprayed carefully—and in consequence it has already borne several profitable crops.

PAST AND PRESENT OF THE NURSERY BUSINESS IN MARYLAND.

JOHN W. KERR, DENTON, MD.

Written especially for THE NATIONAL NURSERYMAN.

Fifty years back the Nursery business in this State was almost entirely confined to the immediate vicinity of Baltimore,—Feast, Corse, Cromwell and Halliday of Baltimore,

Brackenridge, of Govanstown, and Barnard, of Still Pond, were in those earlier days, nearly the "sum total" of fruit-tree propagators in a state naturally and geographically great in horticultural possibilities. The irrepressible tree-agent, representing enterprising northern nurseries generally, and his individual interests particularly in many parts of the State, found his labors much to his liking, as living monuments in the form of old orchards to this day attest. A majority of the varieties thus distributed however, proved wholly unsuited to the locality, and served to retard the development of a general interest in fruit growing. The surging, restless spirit of "American Commercialism," had not at this day, doffed its long dresses, or swaddling clothes, but "the child" grew and waxed fat during the war between the States.

Nurseries, soon after the close of that war began to spring up in almost every county in the state. The growing of peaches as a side-line to farming, in some localities, especially on the Eastern Shore of the State, was so highly exploited as to reverse the order, resulting in quite a craze for trees, which in turn bred a crop of nurserymen of local character, most of whom have long since disappeared,—much to the relief of the entomologist and pathologist of the State Experiment Station. At the present day, the Baltimore nurseries have not a monopoly of the business in the State. The Franklin Davis Co. are extensive propagators, and may properly be classed as a Baltimore house, but on the Eastern Shore of the State we find the Harrisons with a large volume of trade, seconded by the Peters Brothers,—in same county,—who propagate and successfully handle immense quantities of nursery stock. There are quite a number of other "plants" in different parts of the State, some of which conduct a general nursery trade, while others confine their efforts to special lines. In Maryland, as elsewhere generally, the volume of stock propagated is greater than warrants its sale at prices, such as enable bestowal of that degree of care on production, which guarantees permanency and healthy development of fruit interests at large.

The Board of Aldermen, New York City, has appropriated \$5,000,000 for the erection of new school buildings, and \$316,000 for recreation centers, vacation schools and playgrounds.

The fruit crop in Ontario promises to be the lightest in several years. The crop of peaches is exceedingly small. Early apples are very light, fall and winter apples are light, plums largely failed, and pears promise a small crop.

Box manufacturers are letting their light shine. If growers purchase boxes in accordance with the frequency of the advertisements of manufacturers of this kind of package, there will certainly be fewer barrels used this year than formerly. The outlook for low priced barrels is not promising at the present time.

THE NURSERYMAN'S LABEL.

JOHN C. CHASE, DERRY, N. H.

(Before the Nurserymen's Association at Atlanta, Ga., June 22-24.)

HISTORICAL.

Historically, the nurseryman's label in some form or other is practically as old as the race itself, for we read that closely following the catastrophe that overtook the first nursery of which we have any record, "the Lord set his mark upon Cain." Evidently there could have been no chance of error in this case for the labeling was done after the specimen had borne fruit. Whether it remained true to name or not is not in my province to discuss.

Further down the centuries the doctrine was set forth that "by their fruits ye shall know them," from which we may infer that in those days no more faith was put in the glowing description of the glib-tongued agent, the gorgeous imagery of his plate-book, or the labelling of his wares than is said to be justifiable at the present day.

From the mechanical point of view the crudest method of marking the purchaser's trees was in use until within a few years, the only device being a plain slip of wood on which the nurseryman wrote the name and attached the wire by hand.

About twenty years ago the machine made, wired and printed label made its appearance. The cost being considerably less than the price paid for a plain unwired label, it was only a short time before they came into general use, so that now as a rule every tree retailed has attached to it in legible form the name it is supposed to bear. If the fruitage of later years tells a different story, it is not the fault of the label.

MATERIAL USED.

While tinned or even copper wire is used to lengthen the life of the label it is not expected, by the seller at least, that this identifying tag shall be anyways permanent, merely lasting until the tree shall have reached and been established in its permanent abiding place, for after fruiting it needs no label to tell its name, and if by any misfortune a mistake has been made in the labelling it is as well that no visible evidence should remain to confound the seller. The non-removal of the labels at a proper time may also cause serious injury to the tree, a growing limb being frequently killed by the constriction of a wire not loosely enough put on. Any complaint about the quick rusting of the so-called iron wire in use in recent years may be answered by saying that the wire used at the present time is made of steel, which corrodes much faster than the iron wire in use a generation ago. Those of you who have had any practical experience with wire shingle nails do not need any further elaboration on this point.

KINDS OF LABELS.

The wired printed labels being had in bundles of 100 only leaves a field for a label large enough to be legibly written upon the case. These are usually made of pine, a soft clear article being desirable to preserve the good nature of the user. A copper wired painted label is generally used when it is desired to preserve the name for the longest practicable time. It is assumed by many that such labels should be used on all cellared stock, but that custom is by no means universal, and is as variable as any other personal notion of the user.

A large label some six inches long is in use to some extent for marking bundles of trees, but does not appear to call for any extended mention. The pointed labels, running from $3\frac{1}{2}$ inches to 12 inches in length, plain or painted, are in more general use by the florist, and are only mentioned in passing. Like the blank wired labels they are of soft pine, and are seldom found printed, except in the shortest lengths which are used in marking bunches of strawberry plants. Paper tags are also used to some extent, but more especially by dealers who do a mail order business, and are generally unwired.

DURABILITY.

The lasting qualities of the label so far as legibility is concerned are exceedingly variable, depending to a great extent upon the exposure to which they are subjected. Some times the writing or printing will be legible for three or four years, but as a rule one-half that length of time would be a proper limit. The trees sent out a year or two ago by the National Department of Agriculture as a presumed aid to political fence building were marked with the ordinary blank label, on which the name had been printed by a rubber stamp with aniline ink. After the first heavy rain to which they were subjected the trees were nameless, and what little value they might have had in the beginning had practically been lost. Thus does a paternal government dissipate the people's money to the detriment of the nurserymen and seedsmen, and where and when will be the end no one can say.

PERMANENT LABELS.

When the matter of marking trees in parks, nursery exhibition trial grounds or any place where a permanent legible record is desired, we are confronted with conditions quite different from those met with by the ordinary nurseryman, where, as I have before remarked, all that is usually expected is to identify the nurseryman's product until it has reached the seller, somewhat analogous to the price mark on a suit of clothes. Numerous devices for the permanent marking aforementioned have been placed on the market. Some of them are in general, but limited use, notably a zinc tag, upon which a special ink is used and a copper slip written upon with a stylus or very hard pencil. The last named fills the bill of permanency, but is far from legible. Other devices have been the enclosing of the written or printed slip of wood or cardboard in a small bottle of clear glass; a double label of two slips of wood hinged at the end and closing up like a pocket knife, the name being on the inside and therefore not visible without manipulation of the label; large wooden tags on which the name is hand printed with printers' ink, loosely attached to the specimen to be marked with a heavy copper wire. The last named appears to be the most practicable and general device in use.

The comparatively limited demand and probable unwillingness to pay the price that a first-class article would call for probably operates to prevent the bringing forward of a horticulturists' label that would satisfactorily fill the exacting conditions under which it is to be used.

I have thus endeavored to give a brief description of the nurseryman's label, its function and limitations, an item comparatively trifling in itself, but one that has much to do with the convenience and comfort of the nurseryman, and frequently of serious import in maintaining pleasant relations between the seller and buyer of trees.

CONNECTICUT SCALE REGULATIONS.

In his report for 1903, Professor W. E. Britton, State Entomologist of the Connecticut Experiment Station, says:

"The desirability of fumigation laws has been discussed in nearly all the states of the Union, and in many cases such laws have been enacted. Fumigation is not an infallible remedial treatment for the San Jose scale, as in several cases insects have come through it alive, but if properly conducted it is the surest method that we can at present recommend for destroying the scale and saving the trees. The expense is not great in the larger nurseries where a proper outfit is installed for the purpose. Eight of the larger nurseries are now provided with regular fumigating houses and several now are more now being built. The entomologist and his assistants try to encourage this as much as possible and give advice and information regarding the proper method of construction and operation.

"It is not improbable that a compulsory fumigation law may soon be passed in Connecticut. It should be considered carefully, however, and not prepared in haste. Many such laws provided for the fumigation of all nursery stock without explaining what is meant by the term 'nursery stock.' In the writer's opinion, it is quite unnecessary to fumigate herbaceous plants and conifers. All fruit stock, and such other deciduous trees and shrubs as are attacked by the scale, should be fumigated. The law should either distinctly specify what kinds are to be fumigated, or it should be left to the discretion of the officer in charge of the work."

R. T. O.

CO-ORDINATION IN HORTICULTURE.

That the new society for Horticultural Science promises practical results for the nurseryman is shown by the fact that Prof. L. C. Corbett of the department of agriculture in his remarks on co-operation in horticulture said: "In variety testing, a uniform scheme of note-taking must be adopted throughout the country. The information thus gained would be of immense importance not only to the growers, but to the seedsmen and the nurseryman, who could with better confidence recommend different varieties for different localities. These remarks apply equally to decorative plants, which are constantly more and more grown as the taste for home adornment is developing. Very little is at present known in regard to the fitness of our common ornamental shrubs and trees for districts outside the middle and the New England states. A flood of inquiries for this kind of information is constantly coming in, but there is as yet no adequate means of supplying it. The society for horticultural science, drawing as it does its patronage from every part of this country, may be an immensely important factor in the accumulation of information of this character."

Acting on the suggestion a permanent committee on the co-ordination of horticultural work was appointed, at the last meeting.

R. T. O.

The National Nut Growers' Association will hold its 3rd Annual Convention at St. Louis, October 26th to 28th. The energetic president of the association is planning for a lively and instructive meeting.

SPECIAL REPORT OF AMERICAN POMOLOGICAL SOCIETY TO BE MADE.

Based Upon Studies Made in the Horticultural Hall, Louisiana Purchase Exposition, St. Louis, Mo. A Study of Varieties of Fruits.

It was first proposed to call a meeting of the society for the express purpose of taking advantage of the peculiar opportunities afforded by the Exposition for a study of fruits in relation to influences of soil, latitude and location. A canvass of our members showed that the great majority was in favor of dispensing with the meeting and having the work done by committees. To this end competent committees have been appointed to take up the study of the leading classes of fruits. These committees are attacking their tasks systematically and with a spirit of thoroughness. The reports of these committees, together with the incident discussion, will constitute the Report. These papers and discussions will be brought together and published, and we shall have for distribution to the members of the society a document of great value. Among the topics to be presented will be studies of groups or types of fruit; promising varieties of apples, pears, peaches, plums, and the like; quality of fruit as influenced by cold storage; quality as influenced by elevation; appearance influenced by altitude; the ideal home of the Ben Davis; the ideal home of Spy; where should we grow Elberta, and many of similar character.

THE COMMITTEES.

We are greatly indebted to Chief of Agriculture and Horticulture, Frederic W. Taylor, for his hearty co-operation in furthering the work of the committees. This he has done by including among the Exposition jurors a large number of the members of the society's committeemen. The work of the juror is furnishing invaluable opportunity for the collection of important data. Mr. John T. Stinson, Superintendent of Pomology, is not only aiding the committeemen, but also actively engaged in the collection of information upon the commercial phases of cold storage with special reference to the apple. The personnel of the committees has been carefully considered so that each group of men may be looked upon as experts in the particular field which they represent.

COMMITTEES IN CHARGE OF SPECIAL REPORT OF AMERICAN POMOLOGICAL SOCIETY.

APPLE—Stinson, J. T., Missouri; Close, C. P., Delaware; Craig, John, New York; Green, S. B., Minnesota; Hansen, N. E., S. Dakota.

CHERRY—W. T. Macoun, Ottawa, Canada; Supt. S. Haven Experiment Station, Michigan; Little, E. E., Iowa.

PEAR—S. A. Beach, Geneva, N. Y.; W. C. Barry, Rochester, N. Y.; Maynard, S. M., Massachusetts; Brackett, G. B., Washington, D. C.

PLUM—Waugh, F. A., Massachusetts; Kerr, J. W., Maryland; Watrous, C. L., Iowa; Hedrick, U. P., Michigan.

PEACH—Whitten, J. C., Missouri; Taft, L. R., Michigan; Price, R. H., Virginia; Heikes, W. F., Oklahoma.

GRAPE—Munson, T. V., Texas; Hussman, G. C., California; Pettit Murray, (Winona), Canada; Green, W. J., Ohio.

NUTS—Taylor, W. A., Washington, D. C.; Van Deman, H. E., Virginia; Burnette, F. H., Louisiana.

TROPICAL FRUITS—Hume, H. H., North Carolina; Berekimans, L. A., Georgia; Kimball, F. C., National City, Cal.; Stiles, W. C., Chico, Cal.

JOHN CRAIG, Ithaca, N. Y., *Secretary*.

BUSINESS MOVEMENTS.

The Cottage Garden's Company of Queens, Long Island, was incorporated at \$100,000 on August 9th. The incorporators are C. W. Ward and Mrs. Ward, J. C. Gowing, Marius Matheron and Joseph Dauphin. The company is organized for the purpose of carrying on a general florist and nursery business and such manufacturing as may be connected therewith. The president is C. W. Ward, W. S. Ward vice-president and J. C. Gowing, Secretary and Treasurer.

WHAT EXPERIMENT STATIONS ARE DOING.

Michigan: special bulletin 27 brings report of South Haven-sub-station for 1903. This contains a report of the behavior of a large collection of fruits. The descriptive notes are not technical but general. A particularly full list of plums is included. Peaches are also described in large variety, as are pears and apples. Experiments with cover crops and with dust sprays are reported. The dry or dust fungicides proved inferior to liquid bordeaux in controlling apple scab though quite efficient as an insecticide.

Michigan Experiment Station Bulletins 213, 214, are a review of the year's experience in growing a large number of strawberries and bush fruits. This station is one of the few offering an annual review of the leading standard and new varieties of fruits.

Ohio Experiment Station Bulletin 148. Devoted to a study of fungous diseases with special reference to peach leaf curl and apple scab. The bulletin chronicles the efficiency of lime-sulphur-salt spray, soda-lime-sulphur and soda-lime-sulphur-vitriol sprays in preventing leaf curl, nevertheless bordeaux mixture is preferred and is also recommended as the surest specific against apple scab.

KEEPING QUALITIES OF APPLES: New York Experiment Station, Geneva Bulletin 248. The title of this publication is New York Apples in Storage. It treats of different varieties of apples in relation to their natural season of ripening and keeping and their adaptability for storage. The information in relation was gained by tests made at the station by interviewing men in the business and by tests made with the U. S. Department of Agriculture.

The part of greatest interest is that relating to the common storage of apples. Among the best keepers were Red Canada, Green Newtown, Winesap, Ben. Davis, Lawver, Cooper Market, York Imperial, Rome, Ontario, Roxbury, Salome, Sutton, Spy and Tompkins King. These are given in order of keeping. They all kept till the first half of March while Newtown and Red Canada were in fine condition the first half of June.

The Bulletin contains a large amount of useful information and should be in the hands of all fruit dealers.

Minnesota: Experiment Station, Bulletin 84. That the State of Minnesota was thoroughly provided with a complete assortment of "Injurious Insects" in 1903 is proved by the bulletin of 184 pages, illustrated, which the Division of Entomology felt called upon to publish in order to cover the "bug" record of the year. At all events, nurserymen and others in the state have in this publication a useful insect manual and a spray calendar combined.

Bureau of Plant Industry, Division of Pomology, Bulletin 61. THE AVOCADO IN FLORIDA. Pomologist Brackett says in his preface: "The Avocado is one of the most recent fruits to secure intelligent and systematic treatment from American fruit growers." Until very recently the principal supply for these markets has come from the West Indies, chiefly because of cheaper transportation from these islands than from Florida. The recent extension of railroad facilities to far southern Florida has made possible the safe shipment of this fruit from that section to practically all parts of the country and interest in its commercial culture has largely increased.

Another difficulty in the way of the dissemination of the

Alligator pear has been the fact that methods of propagating it were not well understood. It has been recently determined that seedlings do not come true and that it can be propagated by the common shield method of budding, when the operation is performed before the first flush of growth in spring. Most people have to acquire a taste for the Avocado, though a few take to it on first introduction. Its buttery, curiously flavored flesh, is now used as a fruit salad as well as in the cooked form. The bulletin does not give the approximate climatic range of this fruit but it is presumed to be strictly tropical.

OF INTEREST.

Editor National Nurseryman, Rochester, N. Y.:

DEAR SIR—I have traveled in more than twenty different states for the past twelve weeks, and see no cause for alarm for nurserymen who are growing a good, general stock. Yet there is too much stock planted each season to get the most profit, now that labor cost more, and there are twice the number engaged in the business. We must grow less stock to burn. The greatest trouble I see is that many of us have allowed expenses to increase very rapidly, and it is difficult to economize on labor.

The demand for trees for fall is good, and I believe that all merchantable stock will be needed before early spring at a good fair price. Numbers have planted too many poor seedlings, and have a surplus of light trees. If we would only plant one-tenth of what we have done, and use the best stocks, putting the same amount of fertilizer and cultivation of same, we would come nearer saving something for ourselves.

ORLANDO HARRISON.

Among Growers and Dealers.

Irving E. Spaulding, president of the Spaulding Nursery and Orchard Co., has been calling on the nurserymen of Western New York.

E. T. Dickson, of Chatenay Seine, France, has made his usual visits among his many customers in the United States. He stopped in Rochester early in August.

Orlando Harrison, of the the firm of John G. Harrison & Sons, called on the nurserymen in New York State a short time ago.

The Willis Nurseries of Ottawa, Kansas, write "that the floods and wet weather have interfered somewhat with the growth of stock in the West, and the severe winter and high waters have cut down stock in the East. Just now we are trying to get ourselves together and find out where we are at."

Peter F. Williams, of Brighton, N. Y., formerly of Chicago, Ill., who for the past fifteen years was connected with Brown Brothers Company, of Rochester, N. Y., has been elected president of Perry Nursery Company, of Rochester, N. Y., succeeding Mr. Chas. G. Schoener who retires from the business.

Among the callers at the National Nurserman office last week was Mr. Harry Chase, of the Alabama Nursery Co., Mr. Chase has been looking business and friends in New York.

Thomas Meehan & Sons, Dreshertown, Pa., report a very heavy demand for their "Red Star" raffia.

In the August issue of the Canadian Horticulturist, the Helderleigh Nurseries owned by E. D. Smith, of Winona, Ontario, are written up in an illustrated article. There appears to be about 200 acres in nursery and 400 acres in orchard and vineyard. The Helderleigh Nurseries are among the largest in Canada.

The Pebble Hill Fruit Farm and Nurseries, Inc., of Winchester, Tennessee, have bought The Oak Grove Nurseries also of Winchester, which will give them one of the best nursery locations in that section. They will consolidate the two nurseries under their name Pebble Hill Fruit Farm & Nurseries. This purchase will give them three quarters of million each of June Bud and Dormant Peach for this fall and for next fall delivery respectively.

Quiz Column

THE NURSERY TREE AS A CROP.

A SYMPOSIUM.

The questions asked below come from a Kansas correspondent. They are pertinent it seems to us and worthy of thorough discussions. The editor offers the following answers as expressing his view of the matter. The questions were submitted to several nurserymen and we shall be glad to give our readers their views also as space allows.

1. Will the raising of nursery stock—(apple tree seedlings and one and two year grafts)—exhaust the fertility of the soil sooner than the raising of ordinary farm crops—(corn, wheat, potatoes, etc.

Ans. From such evidence as experience and the chemist have given us, it seems fair to say that the raising of nursery stock will not exhaust soil more rapidly than will ordinary farm crops. Analyses of soils made by the Cornell Experiment Station show that different nursery crops, however, remove different amounts of soil fertility. For instance, it appears that apple nursery stock removes fertility approximately to the amount of six dollars per acre, per year; pears, five dollars; peaches, four and one quarter dollars; plums, three dollars and eighty cents. It is also to be noted that more phosphoric acid is removed by the growing of apples and pears than by peaches and plums. Comparing these amounts with a good crop of ensilage corn, the figures are considerably in favor of the nursery trees. In other words, corn takes more plant food from the soil than the nursery trees.

2. If not, why do nurserymen refuse to rent the same land for that purpose more than two or three years?

Ans. Because experience has demonstrated that, as a rule, second and third crops of nursery trees are not grown successfully on the same soil. While this may be a fact, it is probably not due to soil exhaustion.

3. Do you think that land that had been in apple tree seedlings and grafts for three years would give *as great a yield* of corn and wheat *afterwards* as before the trees were raised on it?

Ans. It is likely it would not in the majority of cases, but frequently excellent crops are raised and sometimes farmers select such land.

4. Does not a fruit tree take more from the soil than other crops?

Ans. One must discriminate in regard to the age of the tree. A fruit tree in bearing takes more from the soil than an equal area occupied by wheat. In other words, our investigations have shown that it costs an acre of land more to produce twenty crops of apples, than it does to produce twenty crops of wheat; but the exhaustion comes about more on account of the growth of fruit than of leaves and wood. The nursery tree is in another class.

5. Should nurserymen pay more rent for land for nursery purposes, than for ordinary farm crops?

Ans. I think, as a rule, that nurserymen are willing to pay a higher rental for land to be occupied by nursery stock than others who grow ordinary farm crops.

6. What should land rent for, for nursery stock that

brings \$5.00 per acre, cash (or \$7.00 or more grain rent) for ordinary farm crops? Land worth \$100.00 per acre.

Ans. The rental of land should be based upon the farm crop-producing ability of that land plus any increase which it is customary to charge for the growing of nursery stock. A rental of eight to ten per cent. on the value of the land ought to be reasonable.

Remarks: Now we have not yet explained why in the face of the fact that nursery-trees do not appear to take more plant-food out of the soil, nevertheless the soil may appear to be exhausted. When this occurs it would seem that it is to be charged to deteriorated physical condition. One must remember that the two factors bearing upon the fertility of the land are: 1. The plant-food content; 2. the physical condition. Probably the latter is of the greatest importance. Now, then, why do nursery lands need resting or rotating? Because the nurseryman is an intensive cultivator. No herbage or vegetable matter goes back to the land. He cultivates clean. When trees are removed, the major part of the roots are taken from the soil. This takes out all the humus-bearing portion. Again, the trees may be dug at a time when the soil is wet, and if it is of a clayey nature, its physical condition will be greatly injured. Soil robbed of its humus tends to run together and cement if worked when wet. Its tendency is to do this anyhow whether worked or not.

It seems to us that a good deal of this injury might be averted if nurseryman grew a secondary crop among the trees. This secondary crop should be plowed under. We know there are objections to growing buckwheat or clover in nursery stock, but we are of the opinion that nurserymen will have to come to it sometime. We may not reach the limit of available nursery land in our day, but it is bound to be reached in the not distant future. If the supply of humus is kept up, we see no reason why a second and a third crop of nursery trees may not be grown. Indeed, they have and are being grown successfully by plowing under humus-giving fertilizers, like stable manure. There is no good reason why the same could not be effected by plowing under green manures.

Now this is our opinion. We are open to conviction and offer the columns of the NATIONAL NURSERYMAN to those who have opinions and experience to offer. [Ed.]

EVIDENCE OF NURSERYMEN.

L. R. TAYLOR SONS, TOPEKA, KANSAS.

Ques. 1. Does the growing of nursery stock exhaust land more than the growing of farm crops?

Ans. We find after growing trees on land for two or three years, that the ground is pretty well exhausted for this kind of crop, while if put back to corn it will raise a much larger crop with less attention than before being planted to trees.

We have farmers come to us and say that their land is exhausted for corn, and want us to rent it for trees to "Get it in shape again." However, we find it absolutely necessary to rotate our crops.

Ques. 2. Can orchards be grown successfully on ground that has produced two consecutive crops of nursery stock?

Ans. Yes, we think so, though the growth for the first year or so might be slower than on other ground.

Ques. 3. What is your opinion about growing a cover crop in the nursery?

Ans. We have had no experience along this line, but think it would not be successful in this section.

Ques. 4. What do you consider a fair rental per acre, for land for the growing of nursery stock?

Ans. We consider \$6.00 per acre the outside price to pay for nursery crops; and considering the deep plowing, the subsoiling with the tree digger and the excellent condition in which the ground is returned to the leasor we think the nurseryman should not be required to pay more.

NOTE—Our replies are based largely on the fact that farm lands here are used principally for growing of corn, but small acreage in our vicinity being put in oats, wheat and similar crops; were the reverse the case it is possible our experience and observations would be somewhat different than given. We mention this, as it occurs to us that as conditions vary as to crops grown, etc., that a person seeking information along the lines indicated, should after all necessarily be governed largely by local facts.

We shall be glad to furnish at any time any information within our reach you may desire, or wish, for the good of the NATIONAL NURSERYMAN, and wishing you success and personal pleasure in your new work, we are,

Yours truly,

L. R. T. & SONS.

BY BROWN BROS., ROCHESTER, N. Y.

These are old questions that have been thrashed out pretty well from time to time.

The growing of nursery stock generally speaking does not exhaust land more than the growing of farm crops, in fact, some of the largest farm yields we have ever seen have immediately followed a crop of nursery trees, but just as any crop takes from the soil that on which it thrives, so nursery stock exhausts land for nursery purposes, making it necessary to supply a large amount of fertilizing, if the trees are to be grown on the same ground.

We do not believe that the fact that two consecutive crops of nursery trees were taken from a piece of ground would make much if any difference with the land for orchard purposes.

A cover crop in the nurseries in this section seems to us entirely unnecessary and we do not believe that it would pay for the expense involved.

As to a fair rental for land for nursery purposes, prices in this section vary greatly, but under present conditions good and can be rented for about 6 per cent. of its value. It should bring more to make the investment in the land a good one, but there seems to be more land than can be made use of at a good rental. We will be glad to co-operate with you in any way in our power.

This subject will be continued in our October issue and a new one introduced. We have an interesting lot of replies from growers of nursery stock. We ask for a discussion of COPYRIGHTED TRADE NAMES. What protection to the originator or introducer do they afford? Let us have a full, free and above board discussion of this important matter,—[ED.]

ROOT KNOT.

Tyler, Texas, Aug. 3 '04.

EDITOR NATIONAL NURSERYMAN:

Sir—I would be glad to have your views on what is called root knot on nursery stock, especially on peach. Give cause, effect and remedy. The disease referred to is a warty growth appearing on the lateral roots. In some instances it checks the growth and causes the tree to finally die and in other cases it does not effect the growth. The tree looks strong and vigorous but the roots may be covered with the fungus.

J. L. F.

Ans. The root knot of the peach and apple is becoming quite a serious trouble particularly in the South. Vegetable pathologists thus far have not worked out the life history of the agent which causes this peculiar swelling on the roots further than to ascertain that it is due to a micro-organism. It has, however, been proven that the knot of the peach root can be transmitted to the root of the apple tree and that of the apple to the raspberry; and the reverse is also true. In other words, the knots are interchangeable or intercommunicable. This fact increases the gravity of the situation. Whether they are distinct species of parasitic plants, or not, is of less importance than the fact that each form can live on different host plants makes them much more dangerous. Experiments carried on by the Missouri Experiment Station last year, in which a great variety of substances were used to treat the knots, showed that this method was unsatisfactory as a whole. The best results were secured by cutting off the knots and treating the wounds with Bordeaux mixture of other strong antiseptics, before planting the trees. Personally, we have known cases where trees badly effected with this knot, recovered after being set in the orchard, but it is safe to say that, this is the exception, and it is altogether reasonable to believe that the proper thing to do is to reject such trees in filling out orders. Certain soils seem to favor the development of the trouble. A full account of the studies made by the Missouri experiment station may be found in the last report of the Missouri Horticultural Society. L. A. Goodman, Sec'y, Kansas City, Mo. [ED.]

AN EARLY CHESTNUT.

The National Nurseryman is in receipt of samples of chestnuts from the G. M. Bacon Pecan Company of Dewitt, Georgia. These nuts are large and fine looking and from the Northern standpoint are very early. All other characteristics point to Japanese origin. Whether the variety is valuable or not will depend principally upon the period of maturity and upon its productiveness. From our experience and comparing it with Paragon and some other standard sorts, it would seem that this was a very worthy variety and should be tested further. We would suggest that our correspondent send samples to the Pomologist, Department of Agriculture, Washington, D. C.

Thos. J. Bolger, has recently purchased the cellars and packing yards, formerly owned by O. K. Gerrish, of Massachusetts, and will continue the same business.

Reports on Condition of Nursery Stock

Is not this a good time to forecast the condition of nursery stock? Drop the editor a line stating what the status of tree growth is in *your* vicinity, and *yours*, and *yours*. To the men of the middle West, has it been favorable for root grafts? How have the buds fared, ye men of the East? What of

apple seedlings and other fruit stocks? Let us round up the situation and find out how matters stand. The following tabular statement has been supplied by some of our friends of the trade and covers a wide range of territory. We would like to post our readers in this manner each month.

Firm.	Apple.		Cherry.		Plum.		Pear.		Peach.		Apple Seedlings.	
	quantity	quality	quantity	quality	quantity	quality	quantity	quality	quantity	quality	quantity	quality
Albertson & Hobbs....	fair	good	fair	good	fair	good	fair	good	fair	good	fair	good
Bridgeport, Ind.....												
Augustine & Co.....	fair	good	fair	good	small	good	fair	good	fair	fair	none	
Normal, Ill.....												
Brown Bros. Co.....	good	fair	small	fair	small	fair	small	fair	average	fair	good	fair
Brown's Nurser's Ont												
Bragg & Co., L. S.....	fair	good	small	good	small	good	small	good	small	good	none	
Kalamazoo, Mich.....												
Harrison & Sons, J. G..	fair	excel't	fair	excel't	small	poor	fair	excel't	fair	excel't	none	
Berlin, Md.....												
Jackson & Perkins.....	fair	good	small	poor	small	poor	fair	good	fair	good	none	
Newark, N. Y.....												
The Elizabeth Nur. Co.	Orna	mental	shrubs	and vines	large	fine						
Elizabeth, N. J.....												
Youngers & Co.....	large	excel't	fair	fair	large	excel't	small	fair	fair	excel't	fair	excel't
Geneva, Neb.....												
Baker Bros.....	small	good	none		fair	excel't	small	good	fair	excel't	none	
Ft. Worth, Texas....												
Blair & Kaufman.....	good 1 yr				light				light	Ornam ents	and grapes	
Kansas City, Mo.....	no 2 yr.									and currants	and good	
R. G. Chase.....												
Geneva, N. Y.....	good	good	few	poor	good	good	good	good	few	good		
J. A. Gage.....	fair	fair	small	fair					fair	good	small	fair
Beatrices, Nebr.....												
Greening Bros.....	fair	fair	fair	good	fair	good	small	fair	fair	fair		
Nur. Co., Monroe' Mich												
Morey & Son.....	fair	excel't	large	excel't	small	fair	fair	excel't	small	excel't		
Dansville, N. Y.....												
W. & T. Smith.....	fair	fair	fair	poor	fair	good	small	poor	small	fair	none	
Geneva, N. Y.....												
J. Van Lindley Nur. Co.	small	good	fair	good	fair	good	fair	good	large	excel't		
Pomona, N. C.....												
H. J. Weter Sons Nur.	fair	good	fair	excel't	small	fair	fair	good	small	good	Do not	grow them
Co., Nursery, Mo.....												

SEPTEMBER SPECIALTIES.

Vredenburg & Co., Rochester, N. Y., make a specialty of fruit and flower plates.

Davis County Nurseries, Salt Lake City, Utah, have a large stock of Pears on hand.

Jackson & Perkins Co., Newark, N. Y., offer a large stock of Climbers; Quince and Privet.

West Jersey Nurseries, Bridgeton, N. J., are offering California Privet and Peach in quantity.

J. A. Roberts, Malvern, Pa., makes a specialty of growing California Privet and Lombardy Poplars.

Wheelock & Clark are growers of Currant Plants and Grape Vines. The season has been favorable.

Southern Nursery Co., Winchester, Tenn., has an extensive stock of Apples, Peach, Pear and Plum.

C. Betscher, Canal Dover, Ohio, is in the field with a fine selection of that popular flower the Peaony.

Chas. F. Meyer, 99 Warren St., N. Y., Agent for Victor Detriche is offering Mahalab Cherry stock in quantity.

The Mount Arbor Nurseries, of Shenandoah, Iowa have their usual arge line of Tree Seedlings and Apple Grafts.

Spaulding Nursery & Orchard Co., are offering as autumn specialties besides other stock Maples, Elms and Catalpas.

The Tennessee Nurseries, Winchester, Tenn., has an exceptionally large stock of well grown Peach trees on hand.

McNary & Gaines, Xenia, Ohio, are now booking orders for fall delivery of Apple, Pear, Cherry, Plum and Peach.

Storrs & Harrison Co., Painesville, Ohio, offer a general selection o fruit trees, ornamental shrubs and greenhouse plants.

Oregon Nursery Co., Salem, Oregon, are specializing in Rambler roses; Cut Leaf Weeping Birch and Carolina Poplars.

Those who buy Box material in the knock down will find attractive offerings by Goodwillie Bros., N. Y. Life Building, Chicago.

J. A. Gage, Beatrice, Nebraska, has grown a fine lot of Forest Tree Seedlings and Apple stock. Season has been favorable.

The Fraser Nursery of Huntsville, Ala., offers in addition to stand-ard fruits a large stock of Magnolias, California Privet and H. P. Roses.

J. Van Lindley Nursery Co., Pomona, N. C., have had a successful trade in Peach Seed, and are offering a full line of desirable southern Apples.

The Southern Railway through its Land and Industrial agent, M. V. Richards, Washington, D. C., is pushing the development of lands in Georgia and the Carolina's.

The season of fall Bulbs is again upon us and James Vick's Sons, Rochester, N. Y., offer a full assortment and draw special attention to their New Silver Ribbon Grass.

P. J. Berckmans Co., Augusta, Ga., are offering a particularly full line of Camellias and other hot-house plants in addition to some out-door roses and hardy Conifers.

Lord & Burnham Co., are doing a large business in supplying Gulf Cypress Greenhouse Material to those who are constructing forcing houses. They are also pushing the Burnham Boiler.

(Continued on page 119.)

The National Nurseryman

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 SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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ROCHESTER, N. Y., SEPTEMBER, 1904.

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 NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

Editorial

We have recently been taken to task by a patron who claims to have been badly treated by an advertiser who uses the columns of the NATIONAL NURSERYMAN. Let us suppose the case is substantially as follows: Messrs. A. & B. offer stock in wholesale in quantities in our advertising columns. Messrs. C. & D., retailers, and others residing in adjoining states purchase freely. The stock is shipped purchasers by A. & B. in due time.

Now comes the remarkable and entirely unwarranted part of the transaction. After Messrs. C. & D. receive the stock and are busy placing orders, agents representing A. & B. appear on the scene as active competitors. Mere competition is not so bad but their methods appear to be utterly contemptible. They circularized the farmers of the county urging them to buy direct from the wholesaler, to avoid the jobber; and to clinch matters actually published the names of the dealers who had purchased stock of them, together with a rough bill of the goods! Business ethics, eh? If this statement is true and there appears to be no good reason to doubt it, we are of the opinion that Messrs. A. & B. have much to learn under the general caption of Business Ethics.

To come back to the original proposition—the responsibility of the advertising medium—we must state now that it is our desire and aim to deal squarely with the seller and the buyer. We will not willingly aid a fraud, nor will we knowingly allow the columns of our journal to be used by unscrupulous and dishonest persons. But on the other hand we must not be expected to fight legal battles for our patrons who have been worsted in business struggles by such sharp practice as is outlined above. It seems to us that here are sufficient grounds for a suit of damages. When such has been brought by Messrs. C. & D. then the readers of the NURSERYMAN can properly be informed of its progress.

“Many thousand peach trees in the Michigan fruit belt have already died and many more are likely to die as the result of the long continued cold weather of last winter,” so says Professor L. R. Taft in the National Fruit Grower. The writer states that the injury is much greater than occurred during the winter of 1898-1899. The injury is also more or less confined to the exposed hill tops where the soil is light and where the ground was unprotected by snow covering. The author is of the opinion that the experience of many years, although there are apparent exceptions, has not proven misleading in regard to the conditions that prevailed during the past winter, “and the man will not go far astray who after planting some cultivated crop in his peach orchard for the first two years, relies upon frequent cultivations from the first of May to the fifteenth of July, or perhaps the first of August, if the season is a dry one, and then seeds the land with some cover crop as a winter protection.”

These hard winters are to be looked for. They have come with more or less periodicity as far back as our horticultural records extend, but they do not constitute a sufficient reason for abandoning peach culture in any section where the industry has been particularly “hard hit.” Rather they constitute the best possible argument for studying conditions so that the most can be made of site, aspect and methods of tilling.

ECHOES OF THE HARD WINTER.

The editor wishes to acknowledge very gratefully, many kind expressions of satisfaction volunteered by correspondents of this journal in the United States and Canada, on the

ACKNOWLEDGMENT. occasion of the editorial management of the NATIONAL NURSERYMAN falling into his hands.

Such expressions are keenly appreciated. They also have an important bearing upon the future success of the paper. It is needless to say that we earnestly desire the personal interest of the nurserymen of the United States and of Canada. If the journal does not properly represent the great interests of the most progressive class of soil tillers in the world,—growers of fruit and ornamental trees—then it falls short of its ideal; it must change its policy, quicken its pace, catch step, fall into line and head the procession. We want our supporters to push it ahead and help us to keep it to the front. To that end we seek contributions, suggestions and criticisms in much larger measure than have been forthcoming in the past.

This paper must be the paper most eagerly looked for by our patrons. It must be the established medium of exchange not only in matters relating to commerce but in matters relating to nursery practice. The field is a magnificent one. Help us possess it.

In this connection we may be permitted to quote a line from a pleasant letter just received from our esteemed Canadian friend, an extensive nurseryman, enterprising fruit grower, wholesale fruit exporter and finally member of the Canadian House of Commons, Mr. E. D. Smith, proprietor of the Helderleigh Fruit Farms and Nurseries at Winona, Ontario. Mr. Smith congratulates the editor and says, "I presume that with your knowledge of the conditions of the affairs in Canada we may expect to receive a little more recognition in the future than has been offered Canadian nurserymen in the past. If at any time I can be of any assistance to you in furnishing reports on the conditions of trade on this side, I should be glad to do so." This is cordial and also characteristic of Mr. Smith and what is true of this gentleman is largely true of Canadian nurserymen in general.

This journal has been called the National Nurseryman and the name has taken root in the minds and we hope the hearts of our readers. We wish we might enlarge it to the International, in order to express our point of view, namely, that political boundaries do not prohibit the free interchange of that world wide and particularly human commodity, fraternal intercourse. Let the National Nurseryman be the forum in which commerce and handicraft may find expression alike from the pen of men of King Edward and of Uncle Sam.

If our friends of the North do not come to the front, as they well can, we pledge ourselves that the fault will not be ours. On behalf of the National Nurseryman and its friends in the United States, we extend a cordial greeting and express a genuine desire to cooperate with our bretheren in the Northern field.

National Box and Box Shook Manufacturers' Association held the annual meeting at Cleveland, Aug. 18-20, 1904. Sec. C. T. Williams, Cleveland, Ohio.

American Cemetery Superintendents' Association held its annual meeting at Chicago, Aug. 23-25, 1904. Sec'y W. N. Rudd, Mt. Greenwood, Ill.

The discussion which began some two or three years ago, regarding the identity of Black-Ben--Davis and Gano, waxes warm and has reached quite an acute stage.

BLACK-BEN. These varieties according to some authorities, **DAVIS-GANO** or this variety according to others, is certainly well advertised. The situation at the present **CONTRO-** time is rather unique. A committee of one State **VERSY.** society decides that evidence is lacking in the fruit, or the records of its parentage fail to show any difference between the two so called varieties. Another and as it happens, an adjoining reputable State society, reaches by the same process of examination exactly the opposite conclusion.

Here we then have two judgments differing absolutely, offered by two apparently well constituted committees of recognized horticultural standing. But this is not all. The evidence of these committees is then weighed by a supposed judicial nonpartisan referee, who decides in favor of the dual variety proposition. Thus stood the matter until a short time ago, when the firm which was especially instrumental in introducing these two varieties, declared war on the supposed promoters of the original investigation and the controversy at the present time, has assumed a decidedly personal complexion.

The whole thing is very regrettable. It does not seem to us impossible that two individuals, speaking of apples as individuals, should originate separately and independently and yet be so much alike as to be commercially identical. The commercial test is after all, the final one in our estimation. Time will settle this, although it does not seem incredible that the problem might be solved much sooner by thorough and careful examination of the two disputed varieties.

The art of training trees into peculiar forms and fashions has been highly developed in the old countries. We see comparatively little of it in the United States, except occasional **TRAINED** examples of topiary work. One of the best **TREES AT** illustrations of the possibilities of the pruners' **ST. LOUIS** art available to nurserymen at the present **EXPOSITION.** time, is to be found in the grounds immediately surrounding the French Building at the World's Fair, St. Louis.

The boundaries of the square are outlined on three sides by trained trees. The outside row is usually trained to represent the wall system as practiced in Europe. The next row represents the espalier style, where trees take the form of huge candelabras, having branches carried off on either side of the central stem with methodical precision. The inner row shows trees trained in cordon fashion two arms leading out in opposite directions and trained horizontally on a low wire. These trees illustrate several things: First, in a general way the possibilities of training. Second, they imply that the pruner must have had a very accurate and intimate knowledge of the habits of the trees, of the leaf buds and of the fruit buds, so that by suppressing one or encouraging the other the final result was obtained.

In addition to the trained trees there is a fine block of standard roses, quite striking and somewhat unique in this country. These roses show a single stem at the height of three and one-half feet where they end and branch and form the top. The entire exhibit reflects considerable credit upon a

few French nurserymen, because the expense of exporting and installing trees of this kind must have been considerable. The whole thing is interesting and instructive.

A nurseryman is always supposed "to be up" on new fruits. He never knows when a customer is going to call upon him for the latest thing out. Therefore, business exigencies force him to be interested in new creations whether he cares to or not. Every year ushers in a large and varied assortment. It is to be regretted that nurserymen have no authoritative registry office for new fruits, as florists have. It is true that the Department of Agriculture at Washington is doing excellent work in this line by carefully descriptions of recording all new varieties that are brought to their notice, but there is of course nothing compulsory and nothing finally authoritative in this manner of announcing the entry of new varieties into the pomological arena. What is needed is a National Registry Bureau where samples of new varieties shall be submitted and described and registered, so that the possibility of re-naming and introducing them is reduced to a minimum. The organization of such a bureau has often been agitated but it seems no nearer now than it was years ago.

We are lead to make these remarks on looking over the interesting article entitled "Promising New Fruits," by Assistant Pomologist Taylor, which appears in the last Year Book of the Department of Agriculture. The lists of fruits recommended in this article, is not extended and it carries the impression that it has been selected with great care and consideration. Among the varieties mentioned are the following:

Apple: Akin.

This attractive looking variety, at any rate so far as we can judge by the colored plate, is a seedling which originated at Lawrenceville, Ill. It was propagated as far back as 1861 but does not appear to have been offered for sale until 1868. In 1884, it was included in the catalogue of Simpson & Hogue, of Ill., but it was not until 1890, that it really came before the public by being awarded a premium by the Illinois State Horticultural Society, as a seedling of merit. The fruit is of medium size, skin smooth, highly colored, regular in form, with yellowish, fine grained flesh, mild sub-acid and graded in quality as very good. Season, December to April. There are good reports in regard to the vigor of the tree and in regard to its bearing habits.

Apple: Terry.

A good winter apple for the South would be a very valuable find. The Terry seems to mark progress in the right direction. It originated as a seedling on the farm of a man of that name, in Fulton County, Georgia. It was propagated by Mr. Sneed, of Georgia, under the name of "Terry Winter" in 1868. It was not until 1885, that its propagation, commercially was commenced and since that time it has been generally distributed throughout Georgia and the neighboring states. This fruit is of medium size, roundish or oblique in form; yellow ground partly covered with red stripes and and marked with numerous russet dots. The flesh is yellow, splashes, fine grained, crisp and juicy; mild sub-acid in quality and said to be very good. The tree is said to over-bear.

Peach: Hiley.

This appears to be a member of the Chinese Cling group of peaches. It originated with Hiley Bros., of Fort Valley, Georgia. It was first called "Early Belle" but was catalogued under the name of "Hiley" by J. H. Hale in 1900. The Hiley is one of the newer varieties that has been very widely planted in Georgia. It is among the most desirable of the early white flesh peaches. Last fall at Boston, Hiley was awarded a Wilder Medal by the American Pomological Society as a worthy new variety of peach.

Peach: Welch.

In the Welch, we have an entirely different type of peach. It appears to have originated from the Hill's Chili strain which is peculiar to Monroe County, New York, or at least seems to have originated in that section. Welch came to Michigan from a Western New York nursery in a bundle of seedling Chilis. This one turned out to be a good white flesh free stone. It is reported in Michigan to be less subject to curl leaf than its parent and equally as hardy. It has been propagated in Michigan since 1890. It is of good quality and ripens in Allegan County, Mich., about September 20th.

Miscellaneous:

Among other varieties of fruit mentioned by the pomologist in this article are the Splendor Prune, one of Burbank's creations, the Sugar Prune, another of Burbank's, and the Headlight Grape, originated by T. V. Munison, of Denison, Texas, which by the way is a cross between the Moyer and Brilliant. In the South it is one of the earliest grapes in the list. Its parentage should recommend it for trial in the North.

This interesting article closes with a description of the Cardinal Strawberry, originated by George J. Streater, of Garrettsville, Ohio. Interest in strawberries is less keen than formerly because new varieties appear with increasing rapidity and it may be said with truth 'disappear with equal celerity. Now and then one sticks, but the proportion of new varieties which have come to stay during the past ten years is remarkably small compared with the large number introduced.

Our Book Table.

CITRUS FRUITS AND THEIR CULTURE. BY H. HAROLD HUME.

Cloth, pp. 597, (Price not indicated). Publishers, H. & W. W. B. Drew Company, Jacksonville, Fla.

There has been an urgent need of a book on citrus fruits, a book that would give their botanical status, take up culture methods and describe varieties. Nothing recent and reliable on this subject has appeared up to the time of the publication of Professor Hume's attractive volume.

It is divided into two parts. Part 1, gives the botany, history and description of varieties; Part 2 is devoted to cultural directions; Part 3 to diseases and insects; Part 4 to the literature of the subject; Part 5 is an appendix containing variety lists and information for the benefit of shippers.

The chapter on the culture of the citrus fruit is especially full and it would appear very accurate and suggestive. We are inclined to commend this book very highly, perhaps because of our personal acquaintance and knowledge of the author's work, yet looking at it from a very impartial standpoint, the book seems to be a very excellent piece of work. It is delightful to note that it is dedicated to one who has done much to promote citrus culture in the South, Mr. G. L. Taber. We have pleasure in commending this book to our readers.

Doings of Societies

MEETING OF SOUTHERN NURSERYMEN'S ASSOCIATION.

NASHVILLE, N. C., AUGUST 17-18.

The sixth annual convention of the Southern Nurserymen's Association was held at Nashville, N. C., August the 17th and 18th, at the Battery Park Hotel. It was an unusually pleasant and profitable meeting and the nurserymen unite in the opinion that it was one of the most successful conventions ever held by this association. The membership is not large, but what it lacks in numbers it seems to make up in earnestness and enthusiasm. There are not as many nurserymen in all the southern states, as there are in the one state of New York. The nurserymen are so widely scattered over fifteen states that it is difficult to get the attendance that our association should have. But notwithstanding this we have an organization that every southern nurseryman should be proud of. The program was made up of short papers on pertinent subjects such as vitally affect the nurseryman. These papers, however, were the small part of our program. The discussions which they provoked, together with the discussions that follow the questions that come from the question box are the real meat of our convention work. In the convention just closed we held two day sessions and a night session. Almost every member present remained in the hall through these long sessions of three to four hours each and not only remained there, but almost every man took an active part in the discussions and the interest that seemed to pervade the whole membership was unusual. Some of our leading nurserymen who have had a long experience in conventions and convention work declare this was a model which other similar associations might profitably follow.

Almost every prominent nursery in the southeastern states was represented at the meeting.

The formal part of the program consisted of papers and addresses as follows: "Spraying Nursery Stock," by Orlando Harrison of Berlin, Md.; "Pruning Young Nursery Stock," by W. T. Hood, Richmond, Va.; "Reclaiming Worn out Nursery Lands," by John A. Young, Greensboro, N. C.; "The Business Side of the Nursery," by Chas. T. Smith, Concord, Ga.; "Crown Gall in Apple Trees," by Prof. J. L. Phillips, State Entomologist of Virginia, Blacksburg, Va.; "The Nursery Business from a North Carolinians Standpoint," by J. Van Landley of Greensboro, N. C.

Resolutions were passed denouncing the exactions required of nurserymen of the states of Virginia and West Virginia, and a committee was appointed to act with the committee of the American Associations to push a test through the courts.

New officers elected for the ensuing year: H. S. Chase of Huntsville, Ala., President. J. C. Hale, Winchester Tenn., Vice-President. and Chas. T. Smith of Concord, Ga., Secretary and Treasurer. The next annual convention will be held at Norfolk, Va., August 16th and 17th, 1905. The Association is in a prosperous condition and has good balance in the treasury which shows a gain healthy from year to year.

CHAS. T. SMITH., Concord, Ga.

SEPTEMBER SPECIALTIES—Continued.

Note Ad of "Experienced Nurseryman" in our advertising columns.

Home Nursery of Lafayette, Ill., have grown a large stock of apples.

F. T. Ramsey, Austin, Tex., has grown a heavy line of peaches and plums.

Elmhurst Nursery, Argentine, Kan., makes a specialty of small fruit plants.

Those interested in forest tree seedlings should write the German Nurseries Beatrice, Nebr.

W. N. Scarff, Newcastle, Ohio, reports an exceptionally fine line of Houghton Gooseberry plants.

Central Michigan Nursery, Kalamazoo, Mich., is pushing Carolina poplar and budded apple.

The L. Green & Son Co., Perry, Ohio, are catering especially to the needs of Landscape Gardeners.

Blair & Kaufman, Kansas City, Mo., have grown a heavy assortment of standard varieties of grape vines.

The Elm City Nursery Company, New Haven, Conn., has issued an exceedingly attractive autumn catalogue.

S. Mendelson Meehan on a pleasure trip in New York State, stopped over in Rochester and called on Ellwanger & Barry.

W. T. Hood & Co., Richmond, Va., offer California Privet and Japan Plum, and wish to purchase Apple and Pear for early fall delivery.

Daniel W. Wittpen, of the firm of McHutchison & Co., N. Y., returns from his customary European trip on the first of September.

Stark Bro's Nurseries & Orchards Co., Louisiana, Mo., are pushing Vermont apple seedlings, New York grape vines and a general stock of ornamentals.

Youngers & Co., Geneva, Nebr., specialize in Apple Seedlings, American Plum trees and have this year as is usually the case a large stock of Forest Tree Seedlings.

Mr. Samuel N. Baxter who is connected with the wholesale department of Thomas Meehan & Sons Insurance, visited Rochester and Geneva Nurserymen this month.

Professor Geo. C. Britz, of State College, Pa., nursery inspector for the Pennsylvania State Board of Agriculture, is now inspecting nurseries in Eastern Pennsylvania.

Albertson & Hobbs of the Bridgeport Nurseries, Bridgeport, Ind., offer Car-loads of standard fruits from their home nurseries and Apple Seedlings from Topeka, Kan., in addition to a full line of Nurserymen's requisites.

Grape growers in the Keuka and Seneca Lake Districts report that black rot is causing serious injury. The grape vines have been weakened by cold and appear specially susceptible to the fungus. Not more than half a crop will be harvested in the wine making sections of New York.

Obituary.

We regret to record the death of Christian H. Joosten of Brooklyn, N. Y., who died on July 21st, aged 66 years. For many years Mr. Joosten has been known as an importer of Holland stock. He was born in Holland, but became a citizen of the United States, prior to the Civil War. After that period he began business as an importer of Dutch and German nursery stock.

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SUMMER MEETING OF NEW YORK STATE FRUIT GROWERS.

This hustling aggressive society met at Sodus Point on August 25th. The secretary, W. L. McKay of Geneva, and President T. B. Wilson of Hall's Corners have for some time been actively engaged in preparing for the event. In consequence it was well advertised and there was an excellent turn out of fruit men from central and western New York. Among those present were S. D. Willard, Geneva, S. W. Wadhams, Clarkson, F. E. Dawley, Fayetteville; John W. Spencer, Westfield; S. W. Smith, Albion; Dr. Ring, Appleton, B. J. Case, Sodus; Foster Udell, Brockport; Jay E. Allis, Medina; J. Clark Allis, and many other prominent orchardists from the Lake counties bringing them into the fruit region.

FROST INJURIES.

The principal subject was the damage by winter to fruit trees. This was discussed by Professor Craig, of Cornell University, Professor Beach of Geneva Experiment Station, and Mr. W. F. Fletcher, a student of the College of Agriculture of Cornell University.

The effects of winter were very perplexing as no one set of conditions seemed to bring about the same results. Good soil drainage, tillage conducive to perfect maturing of wood coupled with airy elevated sites favored a healthy growth capable of withstanding low temperatures.

LEGISLATION.

This subject was discussed by S. D. Willard, President Wilson and Dr. W. H. Jordan. The gist of their remarks was that horticulturists and agriculturists should act unitedly. The important agricultural acts passed by the New York legislature last winter indicated the possibilities and the power of the farmers when they stood together and worked hard for the passage of a special act.

WINTER KILLING OF FRUIT TREES 1903-4.

Abstract of paper presented at New York State fruit growers meeting August 24, by John Craig, Ithaca, N. Y.

THE WINTER KILLING IS OF THREE KINDS.

1. Dying back of tops including destruction of fruit buds.
2. Injury to stems.
3. Injury to roots.

1. Injury of this kind usually occurs when plants are indeterminate in their habit of growth—in other words the woods does not ripen, and is not in a condition to stand severe cold. It freezes back. Among the plants subject to this type of injury are peaches, sweet cherries, deutzias, etc. This type of injury is often induced by an excess of moisture during the growing season, which forces an abnormal condition of vegetative activity of the tree late in the season.

2. Injury to stems.

a. Bark bursting, this is recognized in the form of sun cracks so called, which often occur in summer as well as in winter. As a matter of fact, the injury is more frequent during warm weather than during cold. For example the temperature on the unshaded stem of a fir tree on a hot summer day was found to be 131 degrees F. when the thermometer was only 96 degrees in the shade. Four weeks later that side of the tree died.

Thin barked trees suffer most and their injuries are marked by numerous cracks of this kind. These cracks often take on quite a seriously cankered condition.

b. Death of cambium is due to hard frost. The cambium dies because in the course of the action of the frost too much water is withdrawn from the cell walls and the cells are affected in the same way as

if a severe drought was taking place. Injury of this kind is often correlated with abundance of moisture in the stems; in other words when the water is abundant it is more easily withdrawn than when it is scanty, as in the case of well ripened wood. Many of the peach trees in the eastern part of the state did not ripen evenly and well last autumn, for some parts of the tree contained an excessive amount of moisture.

3. Root Killing—This refers to the destruction of the roots of fruit trees in winter during periods of unusually low temperature when the ground is lightly covered, or not covered at all, by its usual blanket of snow. Deep rooted plants are more likely to root-kill than shallow rooted ones because the former derive heat from the soil by direct conduction.

Among the shallow rooted types of trees particularly subject to root injury are quinces, dwarf pears and mahaleb cherries.

ACTION OF FROST OF VEGETABLE TISSUE.

1. Probably every plant has its minimum temperature danger limit. These limits differ with different classes of plants. It may be also said to differ with individuals within the classes. It is also dependent somewhat upon vegetative condition.

CAUSE OF DEATH OF THE CELL.

2. The action of severe frost on vegetable tissue results in the withdrawal of water from the cell walls. The amount is somewhat proportionate to the amount contained in the plant structure, and to the severity of the frost. Fruit growers note that Apple and other fruit twigs shrink during the periods of very cold winter—when exaporation passes a certain point death ensues. In this respect this kind of injury is due to loss of water by evaporation. The reason the cell dies appears to be due to the fact that it is unable to reabsorb the water. Starch paste action of under frost separates from the water. Following the death of the cell, oxidation ensues, then decomposition of the tissues.

It has been noted by travelers and plant students that the limit of forest growth in elevated regions is often determined more by evaporation due to excessive cold than by the immediate effect of the low temperature.

3. Root killing. The periderm of the roots is much thinner than that of the bark covering. In Michigan last winter peach trees were root killed severely on dry ridges where the snow blew off. These ridges it is to be remembered are the recommended and favored sites for peach orchards in that state.

Conditions in New York: Fruit buds in central New York appear to have been killed pretty generally when below the 300 foot contourline above lake level. In eastern New York the buds were generally safe above the 600 foot tide water level. In these sections the greatest injury occurred on exposed western slopes below the level referred to, but when ever the wind had an unobstructed sweep, freezing back was found to creep up above the 600 foot elevation.

Considerable injury occurred also on plateaus where the soil was wet, and where growth consequently continued late in the autumn. Trees in sod as a rule suffered less than trees under clean cultivation.

Pears: These were weakened by *Psylla* last autumn. The twigs were imperfectly stored and the cells died because of evaporation of water. This weak growth resulted in an abnormal hardening of the bark which in many cases fastened down so tightly to the wood is apparently to prevent the upward passage of the food supply.

Treatment: scrape bark; wash with alkali; cultivate and feed to stimulate growth.

GENERAL RECOMMENDATIONS.

Cutting back, when the top is winter killed is the thing to do. When the stem or root is injured, the top should not be cut back the first year, because the development of leaves assists in the storing and reinvigorating of the roots under these conditions. It is probable that the top should be headed back the second year after root growth has been in some measure re-established. Root-killing was very prevalent in the grape growing sections of central New York. Growers are advised to head back all weakened or injured vines securely this winter. The vineyards will need the best of cultivation to bring them back into good condition.

Professor W. B. Alwood, for sixteen years, entomologist horticulturist, mycologist, vice-director, etc., of the Virginia Agricultural College, has resigned to engage in business. Mr. Alwood's record as an investigator is well known and his retirement brings great regret.

SPRAYING NURSERY STOCK.

BY ORLANDO HARRISON, BERLIN, MD.

In the course of his paper before the Southern Nurserymen Mr. Harrison said: "Every nurseryman owes all the brain, vim, nerve and commonsense he possesses to the fruit grower who shall best grow a tree. Then what the nurseryman wants to know is, what is a tree? What is a well grown, well matured, well-rooted, shapely fruit tree free from any taint of disease, that will pass inspection. Is there a standard for such a tree? If so, what is the standard? We want a standard, then we will try to grow a healthy tree to fill the order. Without the standard we have no order.

I believe every nurseryman owes it to his customers to spray when in a dormant state every tree and vine with the best spray that can be had, as a preventive of insects of every kind, (salt, lime and sulphur has probably been the most satisfactory). When thoroughly sprayed, when dormant it leaves the tree clean; it adds vitality to the tree; it adds to the growth during the summer. For apple, pear and cherry we have found during dry weather, Bordeaux Mixture to be beneficial, and spraying with whale oil soap—four pounds to fifty gallons of water, to add very much to the growth keeping foliage and tree in good shape. We value spraying in the nursery second to cultivation in dry weather. When wet it does not show to any special advantage.

Is there any reason why every nurseryman should not spray when it is to his advantage to do so and a duty to his customer. I believe it is the cheapest to grow the best and we can grow them better by spraying. It would be one hundred per cent. better to make spraying compulsory than to say you must fumigate. We have been fumigating, taking the vitality from the tree long enough. The fruit growers have lost, and the poor nurserymen who have tried to fumigate thoroughly have killed thousands of trees, and it is the worst red tape that was ever forced upon fruit grower and nurseryman. What per cent. of the trees in the early Fall shipments are thoroughly fumigated. I dare say not one per cent. And if they were, a large per cent. would surely die when they are green and full of sap when dug. Why should we continue the red tape fumigation to satisfy the fruit grower who does not know the damage or simply to satisfy the inspector according to law.

Who's fault is it? It is ours! We do not reason with our people and change the laws. We have lost heavily by fumigation and our customers likewise. Now we have many customers who know what they want and they write "do not fumigate." Why should not every tree planter, after pruning his trees ready for planting, dip them in salt, lime and sulphur mixture. Then he knows he is safe when planted and he sets his orchard with some degree of satisfaction and safety. He has no scale insects to start with. The fear of scale has lessened the planting of many orchards, but thorough spraying has demonstrated that the energetic orchardist is on top by being forced to spray. One of our customers in New York State said to me some days ago he believed he would lose one thousand dollars this season on a 50-acre orchard of peaches because he could not find any scale there,

he did not spray. On a nearby orchard he sprayed and the results were striking.

Now, let us use some common sense mixed with the spray, and thoroughly spray and stop fumigation.

PHILADELPHIA FLORISTS ENTERTAINED—OUTING TO DRESHERTON BY MEEHAN & SONS.

Upon invitation of Thomas B. Meehan, a party of florists and gardeners went out on Saturday last to visit the wholesale nurseries of Thomas Meehan & Sons. The party was met at Camp Hill Station by Thomas B. Meehan, who had hay wagons with boards across for seats, four horses to each wagon, in waiting for the party. A two mile and a half ride brought them to the nursery. On arriving a collation was served; then a ride around the nursery was taken, after which all adjourned to a nearby field and a cricket match took place between John G. Gardner's (Villa Nova) team and the novices from Philadelphia. The result was never in doubt; still Gardner's team, while they won, met with many surprises. A very pleasant time was spent and the party arrived back in this city a 6:45 p. m.

The nurseries at Dreshertown consist of 216 acres; from here all orders are filled for the trade, landscape gardeners, parks and cemeteries, the business being kept entirely separate from the Germantown nurseries of this firm. The start for the new nursery was made ten years ago, when fifty acres was bought; each year more has been added as leases expired. Actual operation of the nursery began five years ago, so that now a very large business is done. The soil is admirably adapted for the work, having a fairly stiff subsoil, yet sufficient stone is present to insure free growth of fibrous roots. The stock is looking very well, and the entire tract of 216 acres is clean and shows good cultivation. Thomas B. Meehan has full charge of this nursery, while his brothers manage the old one in Germantown.—*The Florists Exchange*.

HELP THE TRANSPORTATION COMMITTEE.

We call special attention to the work of the transportation committee. Chairman Albertson is not shirking the responsibilities of his office. We urge all members of the National Nurserymen's Association to answer Mr. Albertson's circular promptly. We also offer the columns of this journal—the official organ of the association—to those who have views on the subject and suggestions to offer.

Notes.

The Canadian Horticultural Association held its Seventh Annual Convention at Ottawa, Canada, on August 9th and 10th. Representatives of the Experiment Station at Ottawa and well known florists of the Dominion furnished the literary programme.

The proceedings of the third Annual Meeting of the Iowa Park and Forestry Association have just come from the press. These proceedings have been compiled by the Secretary, L. H. Pammel of Ames, and form an attractive volume of 170 pages. This has been issued as a bulletin of the Iowa State Horticultural Society. The volume is well printed, nicely illustrated and contains papers on forestry, papers on parks and grounds, and papers on the improvement of school grounds. This association is doing excellent work.

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We offer for next fall or spring delivery about 4 million of the following seedlings, mostly in grades of 8 to 12 inch, 12 to 18 inch and 18 to 24 inch.

ASH, WHITE ELM, BLACK AND HONEY LOCUST,
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500,000 Choice Apple Stocks.

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We make a specialty of Carload Lots of Apple, Peach, Plum, Cherry, Standard and Dwarf Pear, Grape, etc., for the trade. Our immense storage capacity and unexcelled R. R. facilities enable prompt shipment at any time during the season. Freight rates from Louisiana, Mo., are very low, being on St. Louis basis.

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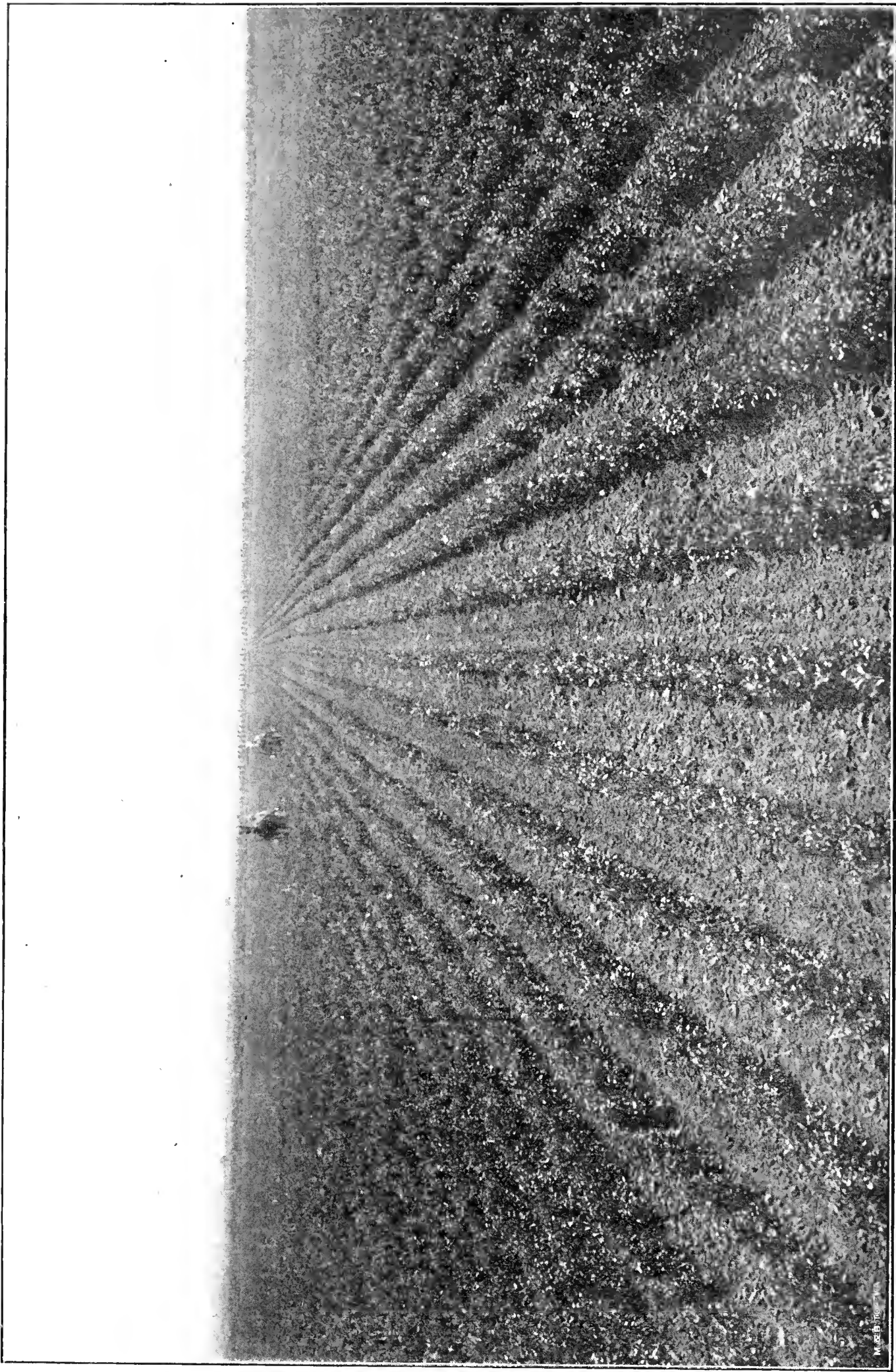
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Here is a fine view of a tremendous area in apple seedlings. The owners L. R. Taylor & Sons, proprietors of the Topeka Nurseries, claim that it is the largest individual block of apple seedlings in America. It is estimated to contain 15,000,000 stocks. The land is "brand new" and the stocks are free from "root gall." There is a pleasure in growing such a block—aside from handling the shekels.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XII.

ROCHESTER, N. Y., OCTOBER, 1904.

No. 10.

PROTECTION FOR THE ORIGINATORS OF NEW PLANT CREATIONS.

BY LUTHER BURBANK, SANTA ROSA, CAL.

Written Especially for the NATIONAL NURSERYMAN.

The exclusive rights of authors and inventors are protected by copyright and patent by the Civil Government, and this is right within reasonable limits. But the creator of new and valuable plant life has no such protection by law. This at first sight, seems a mistake that might be corrected, but it can hardly be reached either by patent or copyright, for things that live and grow are a law to themselves.

Slight variations are constantly appearing among the standard varieties of fruits and other plants, and every seedling is a variation, which may or may not be of unusual value. Where could the line be drawn between two seedlings that closely resembled each other and yet were perhaps originated thousands of miles apart by different planters?

Would not a law to patent or copyright each new plant result in much injustice if it should be enforced? Would such a law tend to retard progress in selection in plant growing; for instance if a farmer produced a better fruit or grain, would he not fear to pass it around to his neighbors lest some unprincipled person should take it up, patent it, and so prevent even the discoverer or originator from using it himself.

In all newly settled places it is the kindly exchange of plants between neighbors that helps to make the world more beautiful. We see this every day in gardens and orchards. If a man has anything extra in fruits and nuts, vegetables, grains, or grasses it is not of full value to him until he has talked it over with his neighbor, and persuaded him to try it, often dividing with him his own stock.

However, no doubt, there can be some protection for the plant originator, in laws prohibiting anything in plant life being sold under wrong labels, thus preventing the nurseryman from sending out inferior stock protected by means of standard or newer varieties which have been proved of worth. The plant originator can also be protected by the names which he selects and puts upon his own productions, so that no other plant of a similar nature may be given the same name thereby confusing purchasers and defrauding the plant originator; and that his new creations sent out may not be renamed. Such laws enforced would do much to protect the plant originator as well as the buying public.

PLACE OF 1905 MEETING.

COMMITTEE ON TRANSPORTATION.

Mr. E. Albertson who has done a good deal of travelling during the past two months writes enthusiastically about the place of meeting and about the probable attendance. He says: "I believe we can rely on an attendance of fully five hundred" and remarks that the program committee should give us a good three days' program.

In regard to the freight business he says: "I have reports from the southern classification committee that they

have decided to let the classification stand as it is for the present; but we think we have accomplished some good in holding the classification where it is, and in making the acquaintance of these parties. By going before them again something may yet be secured in the way of concessions, especially if we meet with any success with the Eastern and Western committees."

A SHORT LIST OF PERENNIALS.

The question often arises in connection with the planting of the amateur garden, shall we use annuals or perennials? It may be answered in terms of work. If one does not object to replanting the border each year and if one likes an opportunity of having variation in color and variety each year, then the annual plant is the one to use, but if on the other hand, time is an important factor and expense is a matter worthy of consideration, then it is altogether likely, more pleasure and quite as good effects would be secured by using perennials.

If one were asked for a choice collection of half a dozen perennials, it would undoubtedly be difficult to narrow it down to that small number. If this were necessary, however, our choice would be the following and these are given in the order of their flowering. The first is *Aquilegia*. This is perhaps better known under the name of *Columbine*. It is the first of the showy perennials to appear in spring. There is a great variety of color, from the pink and white of the wild one, to the deep blue of the Russian and the yellow of *Chrysantha*.

I suppose we cannot do without *Sweet William*, because this carries with it a wealth of sentiment that is indispensable. Then the perennial *Phloxes* as they are now improved, are among the most desirable occupants of the perennial border. We would naturally think of *Larkspur* as following the *Phloxes*. Although it begins to bloom about the same time, its season of blooming is longer. Like the *Columbine* there is an infinite variety both as to size and color, and some of the finest effects we have seen have been secured by planting these with respect to size and color.

The *Hollyhock* must not be forgotten. It is another old time favorite and becoming perhaps increasingly difficult to grow on account of rusts and fungous enemies. Yet like the *Sweet William* we cannot be without it. Whether we should have *Gaillardia* or *Fox-glove* will be simply a matter of choice. Of course if we could extend the varietal period we would use the former because it will come in when those already mentioned have gone out of bloom, and then *Gaillardia* has been so wonderfully improved of late that it is now indeed, a thing of beauty. Most of these can be raised from seed and will bloom the second year. If one can secure roots, bloom can usually be had the same year of planting, but this is not always possible. By all means have perennials. October is an excellent month to plant the perennial border.

A LOVER OF PERENNIALS.

MEETING OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS— IMPORTANT PAPERS.

BY JOS. J. GILBERT, STENOGRAPHER TO S. A. F.

The twentieth Annual Meeting of the Society of American Florists and Ornamental Horticulturists, held at St. Louis, August 16-19, was attended by representative growers from all over the United States. Large delegations were present from the south and middle west, and San Francisco and Winnipeg were represented. The trade exhibition was as large and elaborate as that of previous years.

Liberal contributions were made to the literature of the Society, and the papers and discussions contained many suggestions of practical value to plantmen. Business of general interest to the trade was transacted.

At the opening session Mr. Robert Craig, of Philadelphia, in responding to ex-Mayor Walbridge's welcome, deprecated the undue prominence of the architectural display at the World's Fair, as compared with that of ornamental horticulture. He predicted that the day would come when the latter would receive a more generous share of the millions devoted to such affairs.

BUSINESS

The reports of the Secretary and Treasurer showed a membership of over 1100 and a treasury balance of about \$3,000 in the general fund, with a like amount in the permanent fund.

The Legislative Committee reported, as a result of investigations, that all the leading Express companies were continuing the special rate on plants properly packed.

The committees on a standard for sizes of bulbs and a scale for grading cut flowers reported that the sizes of imported bulbs are too well known to warrant change, and that the grading of canna and dahlia roots was deemed impracticable. They recommend for gladioli the sizes of 5 to 7, 4 to 5 and 3 to 5 inches.

Discussion developed a consensus of opinion that any arbitrary standard was impracticable, and the reports were tabled.

Messrs. J. C. Vaughan, E. G. Hill, E. T. Boddington, Theo. Wirth and Jos. Fuller were appointed to solicit subscriptions from the members in aid of the Vilmorin Memorial in France.

PAPERS

At the second day's session Mr. E. G. Hill, of Richmond, Ind., read a paper upon the development of an American type of roses that will bloom during the summer and autumn in the North and Middle West. He stated as the essential requisites, vigor of constitution to resist disease and hardiness to overcome climatic changes. In the discussion of the paper it was suggested that black spot could be eliminated by hybridizing with rugosa but that spines might be caused; also that bordeaux mixture is used in nurseries, but that apparently healthy plants of some varieties succumbed to the spot in a few hours. Mr. Hill declared that if a really dependable variety could be produced it would enormously increase the rose business. He explained that in pollinating the point was to ripen the seed; that the pollen (which is much affected by climatic conditions) need not be fresh but could be stored in a vial or box not air tight and

applied with a camel's hair brush. Reference was also made to the contention as to whether "American Beauty" is of french or american origin.

The cultivation of bulbs at Arlington Heights, Illinois, was explained by Mr. George Klehm; and Mr. J. C. Vaughan spoke of the growing of bulbs in this country. He said that North Carolina was becoming the source of a world supply of the tuberose, and referred to the growing of French bulbs in the Southern States and to similar efforts being made on the Pacific Coast.

A paper by Mr. J. C. Vaughan discussed "The Ideal Employee" and his attributes of industry, conscientious work, discretion and loyalty; holding that "Do it now" is a talismanic motto for the workman who would achieve success. He emphasized the value of energy and determination. In the discussion upon it the paper was generally commended, but the point was made that the characteristics of individuals, like those of localities, varied materially and required different treatment.

At Thursday's session the following were elected for the ensuing year: President, J. C. Vaughan; Vice-President, J. R. Freeman; Secretary, W. J. Stewart; Treasurer, H. B. Beatty.

CIVIC IMPROVEMENT.

An essay was read by Mr. J. A. Pettigrew, of Boston, upon "Home and Municipal Improvement from a Horticultural Standpoint." It spoke of the influence of public parks in New York, Chicago and other cities in doubling, even quadrupling the values of adjacent real estate; and calculated the total of municipal park areas in the cities and towns of the United States at 75,000 acres, involving an annual expenditure of \$11,000,000. Systematic tree planting in beautifying streets and as a sanitary measure, as also garden planting in school house grounds and the ornamenting of play grounds with trees and shrubbery were discussed.

Comments were made by Superintendent W. R. Smith, of the Government Gardens at Washington, D. C., and Wm. Scott, of Buffalo, N. Y., upon the æsthetic and refining influences of parks, and deprecating their management by politicians. Mr. J. A. PETERSON, of Cincinnati, explained his method of growing indoor flowering plants.

The Society, by a vote of 22 to 30, rejected the long pending proposition to coalesce with the auxiliary societies by enrolling them as Sections of the S. A. F.

Suggestions were made concerning a possible scarcity of tobacco stems for fumigation, as small factories had been bought up by manufacturers of plug tobacco. Nicotidine and canna stems were spoken of as substitutes.

PRESIDENT-ELECT VAUGHAN, referring to the outlook for the future, spoke optimistically of the possibilities for the horticulturist in the popular tendency, especially among the wealthy, to own and beautify suburban or rural homes.

The Society adjourned to meet at Washington, D. C., in August, 1905.

THE CRANBERRY CROP.

At the beginning of the season the outlook was favorable for a large crop. Various causes have brought about a reduction of yield. Frosts and fireworms have both contributed in considerable measure. On the whole the crop will be considerably less than last season. At the end of September, they were selling in New York at \$5.50 to \$6.50 per bushel and in Boston, from \$1.75 to \$2.25 per bushel box.

HELP THE TRANSPORTATION COMMITTEE

Attention is again called to the important work of the Transportation Committee, E. Albertson, Bridgeport, Ind., chairman. It is hoped that the efforts of the committee to secure satisfactory adjustment of transportation questions are being warmly seconded by every member of the Association of American Nurserymen.

TEXAS AT THE FRONT.

SPIRITED LETTER FROM PRESIDENT KIRKPATRICK.

EDITOR NATIONAL NURSERYMAN:

This season in Texas has been favorable for all kinds of crops. With the aid of government experts, organization, improved methods and varieties, all former records are broken. With these great crops comes the highest average of prices. The result is uncommon prosperity among all classes. The product of our orchards and gardens is about ten thousand cars, with a large annual increase. The quality of our fruit, the vigor of growth, and the extent of our area, give bright promise for the future.

The nurserymen are alive to the demands of trade. New and improved varieties are being introduced, more skill and care are used in growing more perfect stock and better prices are received for that stock. Thousands of new varieties of fruits are tested each year—close comparisons are made with the result that many improved and superior varieties are adopted to the exclusion of many old inferior sorts. Horticultural books and periodicals, foreign and domestic, have a wide circulation.

In the absence of a state appropriation to exhibit our products along the other sister states, at St. Louis, a few enterprising citizens donated one hundred thousand dollars of their private funds, and gave their time and represented Texas at the great fair at their sole expense. The result has been seen by all those who have viewed the state exhibits at St. Louis. Our earliest peaches began to ripen in April. During the month of May we placed several varieties of fine commercial peaches, plums, and other fruits on the tables in Horticultural palace at St. Louis.

In earliness, in quality, and in ease of production, our fruit and our vegetables are about all that can be desired for the great northern market. The extent of our area gives wide scope to number and variety of production. The long stretch of latitude, longitude, and altitude, various degrees of humidity and aridity, all grades of soils, clays, gravels, and waters, the climatic and other favorable conditions give verge enough to produce everything from an apple to a pine-apple, from rye to rice, from a potato to dates. Our specialties are early potatoes, peaches, and tomatoes. Many other things are coming.

Texas is the home of the pecan nut. Finest of all nuts! The millions of wealth which will be made out of this nut will probably be the easiest and surest of all our avenues of gain. Newly improved varieties of the pecan are being accumulated,—they will be propagated and planted and also budded on wild trees, both pecan and hickory, and the added wealth from this source will be unlimited. The National Nut-Growers' Association will meet at the St. Louis World's Fair on Oct. 26-28. Everybody is invited to attend its sessions and learn of this, most captivating branch of horticulture. Millions of wild and barren pecan and hickory trees which are now only cumbering the ground can be easily and cheaply converted into the most valuable and most durable of all trees.

Nurserymen, Nut-Growers, and Fruit-Growers can be mutually benefitted by affiliation and consultation. Our committees are working on their reports for our next meeting of the Nurserymen's Association at West Balden Springs, Ind. This meeting promises to be a record-breaking epoch. Every Nurseryman in this and in other countries could find much profit by joining this sturdy band of active producers. The membership will compare favorably with any other membership—in general intelligence, in fraternal good will, and also in the station they fill, duty performed. These members are from all the States of this great country and from many other countries. No people are more devoted to their country and to their every privilege and duty. The expense of membership and of attendance is very small compared with the value gained in opportunity, inspiration, and general helpfulness.

E. W. KIRKPATRICK,

President American Association of Nurserymen.

BUSINESS AND PERSONAL MOVEMENTS.

It is reported that George A. Wagner, nurseryman, of Alinda, Pa., has made an assignment for the benefit of his creditors.

Mr. August Rhotert who has spent the past few weeks abroad, returned from Europe on the Steamship Moltke, about the first of the month.

The business office of THE NATIONAL NURSERYMAN reports calls during the past month, from John B. Mooney of Dansville, N. Y., and Mr. Henry of Henry & Sears, of Geneva, N. Y.

McHutchison & Co. of New York, have been compelled by increasing business to enlarge their office capacity. The firm now occupies a suite of four offices on first floor of the same building, 218 Fulton street.

The following nurserymen visited Rochester during the latter days of September: Mr. Dayton, of Storrs & Harrison, Painesville, Ohio; Mr. Ilgenfritz, of Monroe, Michigan, and Mr. Rice of the firm of T. W. & J. P. Rice, Geneva, N. Y.

Mr. Waltz of Rochester, New York, has been engaged as foreman at the North Wales Nurseries of Thaddens N. Yates & Co., whose office is located at Mt. Airy, Philadelphia. Mr. Waltz was formerly with W. S. Little & Co., of Rochester, N. Y., and is a thoroughly practical nurseryman. The Yates nurseries at North Wales cover over 100 acres of nursery stock. They grow ornamentals entirely. Mr. Waltz took charge about the first of July.

Mr. Winfried Roelker returned from Europe last week on the Steamship Vaderland. Mr. Roelker made extended trips throughout the nursery sections of England and the continent. He reports that the drought on the continent has been very severe this summer; that it has considerably retarded the growth of fruit stocks. It is probable that Mahaleb cherry stock will be short. It is hoped that other fruit stocks have not been materially injured by the protracted drought.

Mr. Albertson of Albertson & Hobbs, Bridgeport, Indiana, and Herbert B. Chase of Huntsville, Alabama, visited Rochester last month on business in connection with the work of the Classification Committee. Mr. Albertson, it will be remembered, is Chairman of the Transportation Committee, and Mr. Chase a member of the same committee. Both of these gentlemen are conscientiously and industriously endeavoring to carry out the purposes of the committee which they represent. Mr. Chase was directed to meet with the Southern Classification Committee.

A cheerful letter from Charles Maxson, of Kalamazoo, Michigan, informs us that he is now treasurer and general manager of the Michigan Nursery & Orchard Company. Mr. Maxson expects to do an agency and mail order business. His experience is wide, having been with Bell & McCrea, as far back as 1876, and having continued in the nursery business up to the present time. For a number of years he was vice-president of the Association of the American Nurserymen for Michigan, and has been one of the most regular attendants at these meetings. We wish him every success in his new position.

ASSIGNMENT OF FRANK H. BATTLES.

A petition in involuntary bankruptcy proceedings against Frank H. Battles, a North street seedsman, has been filed by several of his creditors in the United States District Court in Buffalo. A hearing will be held September 29th before referee, Quincy Van Voorhis. Notice of it was served on Battle's attorney, Arthur Warren.

Battles made a general assignment on August 5th. His liabilities were stated to be \$35,000 with \$41,000 assets, consisting principally of old accounts. There are seventy-five creditors. Of these three object to the assignment and petition to have Battles adjudged an involuntary bankrupt.—*Democrat and Chronicle*.

The National Farmers' Congress held its twenty-fourth annual meeting at St. Louis, Sept. 26-30. The meeting was held in the assembly room of the palace of Agriculture and was largely attended.

An International Horticultural Exhibition will be held in Edinburgh, Scotland, in September, 1905. The exhibition will be supervised by the Royal Caledonian Horticultural Society.

THE NATIONAL NUT-GROWERS' ASSOCIATION EXTENDS AN INVITATION TO THE MEMBERS OF THE NATIONAL NURSERYMEN'S ASSOCIATION TO ATTEND THEIR ANNUAL MEETING.

TO MR. E. W. KIRKPATRICK,
McKinney, Tex.

Dear Sir:—It gives us pleasure to know that one of our esteemed members should be chosen President of the American Nurserymen's Association. No organized work has more in common, with the National Nut Growers Association, than the body you represent as president. No one is more keenly alive to the important influence nurserymen have upon the Nutgrowing Industry, than yourself.

We wish, through you as president, to extend a most cordial invitation to the members of the American Association of Nurserymen," to attend our Annual Convention, at St. Louis, Mo., October 26th-28th, 1904.

With a view to establishing cordial relations between these organizations, and a spirit of mutual helpfulness, we will be glad to have you appoint a delegation, from your membership, who might attend in a semi-official character, and thus open the way for such concert of action, as the best interests of both associations, may require.

Very truly yours,

J. F. WILSON, Sec'y.

G. M. BACON, Pres.

PRESIDENT KIRKPATRICK'S REPLY.

McKINNEY, TEXAS, Aug. 31, 1904.

MR. EDITOR:

Referring to this kindly invitation of the National Nut Growers' Association to the National Nurserymen's Association, to attend their Annual Meeting at St. Louis on October 26-28th, and affiliate with them as a visiting delegation;—we assure the Nut Growers of the great interest and pleasure with which the Nurserymen accept this kind and thoughtful invitation and we trust a large delegation will be present to work for the mutual benefit of each, since our interests are mutual and our purposes identical.

We hereby appoint the officers and members of the American Nurserymen's Association who may be present, at the St. Louis meeting, as our regularly authorized delegates to that convention.

We hopefully urge Vice-President C. L. Watrous, Des Moines, Iowa; Secretary Geo. C. Seager, Rochester, N. Y., and as many other members as possible to be present at this important meeting of the Nut Growers. These people, who are among our most permanent builders in this Republic, are building "wisely and well." They are working for the highest possible result of beauty, grandeur, luxury and wealth. Their work will endure for ages. Let us meet with them.

E. W. KIRKPATRICK, President.

EXPORT OF FRUITS.

During the twelve months ending June 1, this country exported \$20,678,665 worth of fruit against \$8,719,344 worth in 1902. Of this great quantity \$8,237,894 worth were apples-green and dried. To show how the export trade in fruit is developing we may compare it with other export figures as follows:

Export of fruit for one year.....	\$20,678,665
Export of agricultural implements.....	22,749,635
Export of corn.....	30,071,334
Export of wheat.....	35,850,318
Export of anthracite coal.....	10,097,808
Export of cotton cloth.....	14,696,199
Export of leather.....	17,873,085
Export of fresh beef.....	26,841,586

Rural New Yorker.

The Erie Railroad has operated for the benefit of apple shippers in Western New York during the summer months, a daily fruit train from Lockport to Buffalo.

SEEDLESS AND CORELESS APPLES.

NEW YORK COMPANY TO PROPAGATE THIS FRUIT.

The following note regarding seedless and coreless apples recently said to have been produced by Mr. Speneer, of Grand Junction, Colorado, is interesting. The perfecting of this organization implies that there is plenty of confidence in the new creation. We have not yet had an opportunity of seeing the fruit, but if it is worthy and an advance on anything we have of the same season in the apple world, we wish it every success.

"Articles of incorporation have just been filed with the Secretary of State by Clifford P. Fell of Buffalo, incorporating a Nursery Company at \$50,000.00 capitalization to propagate among other fruits the Speneer seedless apple. This apple derives its name from the originator John F. Speneer, of Grand Junction, Colorado, who has been experimenting for a long number of years with a view toward producing a perfect seedless and coreless apple. Mr. Speneer has proceeded all this time on the theory that an orange being seedless on account of the buds not permitting of pollination, the apple too might be made seedless; and if seedless, coreless, if the cause for a core is removed. This experimenter accomplished sufficient along this line to induce him to continue his experiments until the present time when it appears he has been amply rewarded for his persistent efforts by being able to give to the public a perfectly seedless and coreless apple. It differs but little from other apples in appearance, except that it has a slightly hard substance at the naval end. It is a red winter apple with yellow strawberry spots, of a good commercial size, pleasant flavor and fine texture and possessing many other desirable features. In fact it is predicted that the seedless apple will revolutionize this staple industry, and in course of a few years like the seedless orange monopolize the markets of the world."

Our Book Table.

Ferns: A manual for the Northeastern States. By C. E. Waters. Cloth, pp. 362, Square 8 Vo., (Price not indicated). Published by Henry Holt & Company.

In presenting this work, which is essentially a manual of the ferns of the Northeastern States, the author has given the public, a book of great value. The ferns have been much studied, but as a rule books on this subject are either so very popular that they are of little value in distinguishing plants, or so very technical that they repel the amateur. This volume is both attractive to the amateur and the student of plants. The illustrations are excellent. The descriptions are sufficiently technical to be of botanical value.

The author has worked out a special form of classification based upon the arrangement of the fibro-vascular bundles in the stem. This method of classification is simple and if it holds as accurately as stated by the author, it gives to the amateur a very easy key for the identification of a species. Few plant books have come to our table which appear to us more worthy of commendation than this volume.

The Carnation and How to Grow It. By C. W. Ward. Size 8 by 10 inches, pp. 296. Published by A. T. De la mare Printing & Publishing Company.

The reputation of the writer of this book as a carnation grower will unquestionably greatly help its sale. Those who have visited Mr. Ward's place, have studied his methods and have seen his results will be inclined to accept his work on the carnation as authoritative. It is safe to say that the volume will not lessen or cloud the reputation of the writer. It is replete from the cultivator's standpoint; yet it is not given professionally but will interest the amateur as well as the florist. The historical and cultural notes are particularly full and it appears to be a considerable advance on anything that has appeared thus far on carnation culture. The volume is copiously illustrated with half-tones and lithographs. The press work and general finish are very good.

Quiz Column.

LEGAL STATUS OF TRADE-MARK ON VARIETAL NAMES.

SARCOXIE, Mo., August 3, 1904.

The National Nurseryman Publishing Co., Rochester, N. Y.

GENTLEMEN:—We are in receipt of your "Announcement" of July 21, 1904, and wish to submit the following question for answer in the NATIONAL NURSERYMAN:

What is the legal status of a trade-mark on varietal names of fruit trees or plants?

Yours truly,

JAMES B. WILD & BROS.

This question was submitted to Judge Frank Irvine of the College of Law of Cornell University, to the Hon. John Cunneen, Attorney General of the State of New York, and to Pomologist W. A. Taylor, Division of Pomology, Washington, D. C. We are very grateful for their valuable opinions which are given below. [ED.]

OPINION OF JUDGE IRVINE, COLLEGE OF LAW CORNELL UNIVERSITY, ITHACA, N. Y.

It is clear that a name, as applied to a product, natural or otherwise, is not the subject of copyright. Copyright is designed to protect literary and artistic property and extends only to books, maps, pictures, statues and similar productions, protecting the author against an unauthorized reproduction thereof. A mere label cannot be copyrighted, (*Higgins v. Keuffel*, 140 U. S. 28).

The name applied by one who has discovered or developed a new variety of fruit, to that fruit or the stock producing it, is more in the nature of a trade-mark or trade-name. It has been held however, that a natural product which reproduces itself, is not the subject of trade-mark (*Hoyt v. Lovett*, 71 Fed. 173). That was a case where the plaintiff had bought grape-vines from one who had found the parent stock on the Green Mountains and had accordingly called it the "Green Mountain Grape" and the defendants were raising and selling products from the same parent stock. The case is certainly authority for the proposition, which seems perfectly sound, that one who develops a new variety of fruit and who has attached to it a particular name, cannot appropriate to his exclusive use such name, as against those purchasing stock from him, in the absence, at least, of a special contract with the purchaser. In other words, the sale of the fruit or of nursery stock, in the absence of contract, carries with it the right to reproduce and sell the product under the original name.

It does not follow that the name is entitled to no protection. Should a stranger offer for sale other fruit or stock, not derived from the parent stock, under the name so given and under circumstances calculated to lead the public to believe that his products were so derived, an element of unfair competition would appear, against which the courts would afford relief to anyone having the right to use the name.

The selection of such a name requires care; it should not be merely descriptive of the article, because in such a case, any person has the right to use the same name, when it is properly descriptive of his own product; it should not be the name of a locality, because any producer in that locality has an equal right to the use of the name. If the name of the producer himself is taken, a person of the same name is not thereby prevented from using it in good faith. The name chosen should be fanciful and novel, as applied to that use. No formalities are required; the appropriation of the name and its actual use in commerce create such rights as can be in any way acquired. Trade-marks may, however, be registered in the Patent Office for use in foreign commerce and commerce with the Indian tribes, but such registration confers no right in ordinary domestic commerce.

OPINION OF HON. JOHN CUNNEEN, ATTORNEY-GENERAL OF NEW YORK.

Under the authority of the case of the Congress and Empire Spring Co. vs. High Rock Congress Spring Co., 10 Abb. Pr. N. S. 348, it would seem that a trade-mark reserves to its owner the

sole right to label or describe a particular product by such trademark, whether the product be of a natural or an artificial origin, but in a case of a *natural product only* where the owner of the trade-mark is possessed of the *exclusive* source or origin of such product.

Therefore, it would seem doubtful if the possession of a trade-mark on the varietal names of fruit trees or plants would be effective against other producers of the same varieties of trees or plants. The wrongful use of a trade-mark is made punishable by section 364 of the penal code as a misdemeanor, and the designation or description by any person or corporation of a different or inferior product as the product to which the trade-mark applies for the purpose of deceiving the public may be restrained by injunction.

Bininger vs. Wattles, 28 How. Pr., 206.

A POMOLOGIST'S VIEW.

WM. A. TAYLOR POMOLOGIST IN CHARGE OF FIELD INVESTIGATIONS, WASHINGTON, D. C.

First, there is no such thing as a "copyrighted name" in the United States. Names are not subject to copyright. Only printed matter involving something more than a mere name, pictures, maps, etc., are subject to copyright. An introducer of fruits or other plants can therefore, receive no protection from the copyright law, except so far as illustrations of his variety or descriptions of it are concerned.

With regard to the legal status of trade-marks on varietal names of plants, I do not know that the matter has ever been tested through to the highest courts. The "Green Mountain" grape case resulted in a decision against the trade-mark on "Green Mountain" as a varietal name, both because it was a geographical name, which could not be appropriated as a trade-mark, and for the following reasons, to quote from the decision in that case:

"There is no doubt that the sale of seeds, plants, or vines, when detached from the soil in which they grow, carries with it on delivery the right of natural increase or products of the same, when sown or replanted. Neither the common law nor the statutes relating to trade-marks extend the protection of trade names to things which are valued more for their natural powers of reproduction and increase than for any other qualities. The facts in the present case afford an apt illustration of the incongruity of a contrary doctrine. A man buys a grape vine, to which is attached a metallic label stamped with the trade-mark of the seller. In the absence of a special contract between the parties, what is to prevent the buyer from cultivating the vine, and selling its products, whether of wood or of fruits, under the name of the parent stock? Certainly not a trade-mark. To repeat the words of Mr. Justice Strong, 'No one can obtain protection for the exclusive use of a trade-mark or trade-name which would practically give him a monopoly in the sale of goods other than those produced or made immediately by himself.'"

The registration of a plant name as a trade-mark does not in any way prevent anyone from propagating and selling plants of the same variety under other names than that trade-mark.

In consideration of the above, it appears to me that there is little protection for originators or introducers in our present trade-mark laws. They were not originally intended to apply to plants, and their attempted application to plants appears thus far to have been unsatisfactory to all persons concerned.

COLONIST RATES.

VIA WABASH RAILROAD.

From September 15th to October 15th the Wabash Railroad will sell colonist tickets to California Coast Points, Los Angeles, San Diego, San Francisco also to North Pacific Coast Points, Portland, Seattle, Tacoma, at rate of \$42.50. Correspondingly low rates to intermediate points. See your nearest Ticket Agent, or address:

JAMES CASS,

N. Y. S. P. A.

287 Main Street, Buffalo, N. Y.

R. F. KELLEY,

G. A. P. D.

Storrs & Harrison of Painesville, Ohio, write that though the season has been cold and backward yet the growth of apple stock is very satisfactory. Plum and peach have made rather a small growth, while pear stock has done well.

REFERENCE BOOKS ON HORTICULTURE.

Editor *The National Nurseryman*:

DEAR SIR:—As a subscriber to THE NATIONAL NURSERYMAN I would ask you to kindly give me the name of what you consider a standard book of horticulture for the nurseryman. Kindly take our latitude into consideration. I would also like to get better posted on citrus fruits.

Very truly,

J. G. HEGELE.

BEAUMONT, TEXAS, Aug. 12, 1904

Answer—We do not think that there is a single horticultural manual at the present time that covers the whole horticultural field in a satisfactory manner. We have so called horticultural manuals but they are usually written from local standpoints and are therefore, not sufficiently comprehensive in their scope and treatment, to cover the varying conditions which prevail in the United States. The tendency at the present time is for pomological writers to specialize. We have, therefore, our pear book (although nothing recent); we have a book on apples; we have a recent book on plums; on bush fruits and so on. These have all come within a comparatively recent time and the trend of writing is in this direction. If you insist on purchasing a volume which is supposed to include the entire field, then we would recommend the "American Fruit Culturist" by Thomas. The 21st edition of this manual appeared a few years ago and at that time the book was thoroughly overhauled and may be said now, to be well up-to-date. For citrus fruits, we would depend upon a volume entitled "Citrus Fruits and Their Culture" by Professor H. Harold Hume of the Experiment Station of North Carolina at Raleigh. (See review in Sept. issue of NATIONAL NURSERYMAN.)

In addition to these two volumes, it would be well to secure from the United States Department of Agriculture, as many bulletins bearing upon fruit culture as you can obtain. You should also apply to your state experiment station for the publications of its horticultural department. With these bulletins and the two text books mentioned, you will have quite a satisfactory beginning in the way of a horticultural library. [Ed.]

THE NURSERY TREE AS A CROP.—Concluded.

NEW YORK EVIDENCE.

I.

Question 1—Does the growing of nursery stock exhaust land more than the growing of farm crops?

Answer—Yes.

Ques. 2—Can orchards be grown successfully on land which has produced two consecutive crops of nursery trees?

Ans.—Yes.

Ques. 3—What is your opinion about growing a cover crop in the nursery?

Ans.—Have had no experience.

Ques. 4—What do you consider a fair rental per acre, for land for the growing of nursery stock?

Ans.—Eight to ten dollars.

ELLWANGER & BARRY, Rochester, N. Y.

II.

Ans. 1—I think not.

Ans. 2—Yes, but would prefer land that had not produced trees.

Ans. 3—It might, and probably would be advantageous, have never tried it.

Ans. 4—Ten to twenty dollars per acre about Rochester.

CHASE BROS., Rochester, N. Y.

III.

Ans. 1—We have rented land, tile drained, manured it, grown tree crops on it and returned it to the owner in such condition that it grew far better farm crops than before we worked it.

Ans. 2—Would question advisability of apple orchard following two blocks of nursery apple—but apple orchard after peach or plum block we think would be satisfactory.

Ans. 3—Have had no experience.

Ans. 4—Probably from 8 to 12 dollars per acre.

C. W. STUART Co., Newark, N. Y.

IV.

DANVILLE HEARD FROM.

Ans. 1—We do not think that the growing of Nursery stock exhausts the land more than farm crops and know that it is a benefit to the land where farm crops follow the nursery. We have lands that have been treed for 30 years and we expect to continue to repeat this crop for years to come.

Ans. 2—We are unable to make you an answer to this question but we have found by experience that nursery stock will not grow as well if planted on lands that have been cleared of a growing orchard, as the material in the ground which goes to make a strong nursery tree seems to have been exhausted by the orchard.

Ans. 3—The only cover crop that we have ever grown in the nursery has been crimson clover and we did not find that, that did much, if any good. Stable manure seems to be the best fertilizer that we can have.

Ans. 4—Localities differ widely as to the charge per acre for land. In our immediate vicinity we pay from \$15.00 to \$20.00 per acre annually, but only desirable land is leased for nursery purposes, consequently we have to pay a greater rate than those who rent an entire farm. Our judgment is that land should not rent for more than \$10.00 an acre and anything above that price is excessive.

MOREY & SON, Danville, N. Y.

MICHIGAN EXPERIENCE.

Ans. 1—Yes.

Ans. 2—Not unless fertilizer (manure) is applied in liberal quantity.

Ans. 3—A cover crop would absorb the moisture often needed late in summer and also retard growth of Nursery stock.

Ans. 4—\$10.00 to \$15.00 per acre according to condition and location.

CHAS. E. GREENING, Monroe, Mich.

IOWA OPINIONS.

I.

Ans. 1—Not for growing farm crops, especially corn.

Ans. 2—Yes, on Iowa land.

Ans. 3—Always sow buckwheat in apple grafts first year, not afterwards.

Ans. 4—Depends entirely upon value of land and amount of taxes.

C. L. WATROUS, Des Moines, Ia.

II.

Ans. 1—No.

Ans. 2—Yes.

Ans. 3—Don't need a cover crop.

Ans. 4—\$6.00 to \$10.00 here.

D. S. LAKE, Shenandoah, Ia.

OHIO.

Ans. 1—Not for the future farm crops, benefits the land. We grow better farm crops after trees than before.

Ans. 2—Depends on land. We should want to work it and get green crops turned under before planting orchard.

Ans. 3—Always try to grow one in young stock especially on land that is liable to heave in spring.

Ans. 4—Depends altogether on land, location, local conditions, etc. Some land cheaper at \$20 than other lots at \$5.

J. H. DAYTON, Painesville, Ohio.

(Continued on next page.)

THE BEAN HARVEST.

The season has been unfavorable on the whole in New York and in the New England bean growing sections. The Michigan harvest is later than usual. The acreage in New York and Michigan is as large as usual but the crop will be somewhat under the average owing to excessive wetness and the development of rust. The bean crop is annually occupying a more and more important position in rounding out the returns of the farmer.

EXCHANGES.

We have much pleasure in calling attention to the quality, character and general make-up of our esteemed contemporary, the *Western Fruit Grower*. This is one of the most progressive horticultural papers of the country. Its pages are constantly packed full of practical information, and it is up-to-date and alive in every particular. As an advertising medium, the *Western Fruit Grower* occupies an enviable position. The progressiveness of the management is well shown by the way in which the management has pushed its peculiar advertising mascot "Brother Jonathan." This "Brother Jonathan" idea is an excellent one. We wish our co-workers continued success.

THE NURSERY TREE A CROP.

Continued from page 130

MISSOURI.—AN INTERESTING CONTRIBUTION.

Ans. 1—Our experience is that a crop of nursery stock, in fact we may say several crops of nursery stock, will not exhaust land to such an extent as almost any other farm crop. The crop of nursery stock is a rest in a way and a benefit to land for any and all farm crops. The ground is shaded. Foliage remains upon the land, the roots penetrate the earth and in digging, many of the rootlets are left which decay and which improve drainage. The nurseryman's preparation of the land is deep plowing sub-soiling and a thorough system of clean culture. This rids the land of insects and weed seeds, making it almost like virgin new ground. We have observed that nursery lands have produced the heaviest crops of wheat, oats, corn and hay here that have ever been grown. Similar land on adjoining farms has been a failure in wheat when wheat on the nursery land has been an ideal crop.

In dry years as well as wet years, we have seen magnificent corn crops grown. One year of great drought, one corn field following nursery stock, produced a splendid crop, the corn was of a most luxuriant growth, when the adjoining fields were yellowing and drying up. The contrast was so great that even the farmers were convinced that nursery stock does not ruin land as they had been talking. The improvement is marked, not only in the first crop but other crops following. We used one field for a crop, which a near-by neighbor stated had never produced a good crop before, but after the tree crops it produced splendid crops of oats, etc. Lands we have used here off and on for years are to-day in a higher state of fertility than any adjacent lands and will produce heavier farm crops.

Ans. 2—Yes. We also know of some splendid orchards being grown after nursery cropped land.

Ans. 3—Cow peas and Crimson Clover can be used as a cover crop, but with clover there is some danger of attracting field mice; further north, oats make a very good crop as a winter protection.

Ans. 4—This is a question in which fairness is too seldom a consideration. It is one also in which supply and demand figure. For years the rental values in the vicinity of Louisiana, Mo., and Rockport, Ill., have ranged from \$8 to \$10 per acre, sometimes more, occasionally less. The cost usually being too high as compared to value and about double the price charged when rented for farm crop. Land rentals in Dansville have been running \$15 to \$20 per acre and higher, so that we found it economy to buy rather than lease. In the grape belt Portland, N. Y., where grape vine land is rather scarce and valuable, land rents for \$20 and \$22 per acre. Occasionally more, sometimes little less. In our Arkansas planting they are leasing some land at \$4.00 per acre. Such land is worth \$40.00 to \$50.00 per acre. We do considerable leasing so as to always have plenty of fresh land for apple as we never care to grow more than one crop of apple on the same land. Generally speaking nurserymen are overcharged on land rents,—50 to 100 per cent. higher than some land will bring for any farm crop; therefore, we have found it a good investment and a saving to own most of our land.

To arrive at a fair rental price one should take the value of the land into consideration, in order to net the owner a good fair per cent. on the investment, or make such crops as the land had been producing a consideration for an average period; and when so considered the average nurseryman will pay 50 to 100 per cent. less than he is now paying. We offered a farmer \$8.00 per acre for a large field and instead he sowed the land to wheat and the gross crop will not bring him near the money we offered. Some years he may do better. We remember using a piece of land for a crop of apple trees and during the lease, part of the same field remained in clover. In the several crops following, the tree land out-yielded the clover land. Another large field was used for two crops of nursery stock and while it had never produced as much wheat as the adjoining farms, yet the crop of wheat following the trees out-yielded by far any farm in the neighborhood a contrast which was so great that it attracted general attention. And the thrashing machine man reported it as the banner crop of the county.

STARK BROS. NURSERIES & ORCHARDS Co., Louisiana, Mo.

NOTES ON FOREIGN EXCHANGES.

By R. S. NORTHUP.

An editorial in the *Gardener's Chronicle* of July 16 calls attention to the recent reprint in facsimile and the republication of John Parkinson's celebrated work, by Messrs. Methuen & Co. Our debt to him as a herbalist and one of the earliest lovers of hardy flowers who left us a record of what they grew, is emphasized.

This excellent reprint deserves all praise and will enable many, who could not expect to secure in original copy, to add this fine old book to their libraries. The publishers are to be congratulated in having placed the classical old work before many modern readers interested in hardy flowers and the history of gardening in England.

The Temple Rose Show.—The National Rose Society just held one of the most successful rose shows in the history of the organization. Taking one class with another the quality of the roses as to size, texture, color and luminosity, was superb. If we had to pick out the best roses in the show, we should select Mildred Grant, Kaiserin Augusta Victoria, Frou Karl Drusehki, White Maman Crochet and Susanne Rodocanachi.

It is seldom that the National Rose Society awards two gold medals to new varieties exhibited at the Metropolitan Exhibition, but at this exhibition the varieties "Dean Hole" and "Mrs. O. G. Orpet" were thus distinguished.

Gardeners' Chronicle, July 9, 1904.

Gardening Illustrated, June 6, publishes an illustration and description of the new clematis, Nellie Moser, belonging to the patens section. The ground color is white, but this is flushed with pink and down the center of each petal is a broad bar of deep carmine, making it very effective.

A new double flowered lilac, Belle de Nancy, is pictured and favorably commented upon in *Gardening Illustrated* of July 16. Many of the newer double flowered lilacs are remarkable for their large massive clusters and the size of the individual flowers. The latter feature is particularly noticeable in the above named variety.

Plums as Bushes.—The growing of plums as bushes is recommended by Alger Petts in *The Garden* July 16, as one of the most satisfactory methods of culture. The advantages claimed for this method are, that the fruit is not blown off by the wind, insect pests are easily held in check, protection from frost more easily given, a crop can be reckoned upon each year, they are easily pruned insuring a finer quality and in small gardens, four bushes can take the place of one tree thus giving a succession. In addition to these advantages, some varieties make really handsome shrubs for the lawn or border and might thus be utilized to replace many shrubs of little or ordinary beauty.

Full directions for treatment and varieties are included in the article.

The Gardeners' Chronicle for July 23 gives an illustration and description of the new strawberry "Alake," exhibited by Messrs Jas. Veitch and Sons at the Royal Horticultural Societies' meeting on June 28. The variety was raised from a cross between Frogmore, Late Pine and Veitch's Perfection and was recommended for an award of merit by the fruit and vegetable committee. The fruits are very large and are frequently very irregular in outline, possess rich flavor and color and the variety is a prodigious cropper.

The Gardeners' Magazine for July 16, contains an interesting article on some of the new seedling strawberries bred by Laxton Brothers. Illustrations and descriptions of the leading varieties are given and it is evident that the Laxtons are doing some good work with the small fruits.

The Cinematograph and Plants.—At a meeting of The Royal Society July 22, Mrs. D. H. Scott had an exhibit of plants, showing their movements by means of the cinematograph. Under the eyes the buds seemed to swell and develop into perfect flowers, straightening on the stalk. With nightfall many of them closed as if in the act of going to sleep for the night and this phenomenon in its various stages was shown.

The Gardening World, July 2, 1904.

The National Nurseryman

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NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

Our readers will remember the sharp opposition offered to the passage of the Reclamation Law, June 17, 1902. This bill was warmly contested by legislators and opposed by

IRRIGATED FARMS IN NEVADA. some of the leading agricultural newspapers of the East, on the ground that it would bring into competition with the Eastern producer, lands which were made available for cultivation by the money of the whole people. "Forestry and Irrigation" informs us that about 250 farms in Nevada are now open to homestead entry under the terms of the above Law. "These farms are from 40 to 160 acres in area and will be furnished with water from the government canals and reservoirs at a cost of \$26 per acre, payable in ten annual installments.

The maps showing the location and extent of each of these farms are in the hands of the General Land Office, and entries can be made under the Homestead Act subject to the limitations of the law of June 17, 1902.

The land is to be given away to persons who will live upon it for five years and who will pay the cost of bringing water to the land, namely, \$2.60 per acre for ten years. After that time the water-supply system becomes the property of the water users owning the land."

On the morning of August 13th, the horticulturist of Cornell University Experiment Station, Ithaca, N. Y., was twice called to the long distance telephone, in answer to requests for information, made by fruit growers in distant parts of the State. In each instance, a dangerous enemy of fruit, or vegetable crops had appeared and the owners rightly and promptly exercised their right to ask the Experiment Station authorities for assistance.

Think of it! What a change has come over the ways of the fruit grower during the past decade. Ten years ago who would have thought of a fruit grower's appealing by long distance telephone to an experiment station for aid in fighting a fungous enemy, or an insect pest. When we contrast the status of the experiment station and fruit grower of ten years ago with that of to-day, the marvelous change which this decade has wrought, stands out in bold relief. The fact that the fruit grower and gardener are alive to the necessity of prompt action, know where to appeal for assistance and above all act energetically, speaks volumes for the future of fruit growing. As business men in horticulture, nurserymen are the natural leaders. Their methods are more advanced than that of their brothers, the growers of farm crops. In this respect the nurseryman is a factor of great service to the farming public; nevertheless we are wondering if these agencies,—the experiment stations established and maintained by Federal aid—are always utilized to their best possibilities by growers of trees and growers of fruit.

The rapidity with which mechanical refrigeration has been applied in many of the fields of industrial life constitutes one of the remarkable stories of this age of material advancement.

THE DEVELOPMENT OF COLD STORAGE AS APPLIED TO APPLES. Twenty years ago, a mechanical refrigerator was an unknown factor in the commercial handling of fruit. In 1903, more than two and a quarter million bushels of apples were stored in mechanically refrigerated warehouses in the United States in the month of December.

We said, twenty years ago, and yet it is largely since 1890 that mechanical refrigeration has been applied to the problem of carrying our apples through the winter. In fact, it may be said, that it was not until a storage warehouse in connection with the horticultural department at the World's Fair, at Chicago, in 1893, had successfully demonstrated to a large number of interested parties, the possibilities of the method, that it became widely popular.

To show the manner in which the business has developed in the past six years we quote the following figures from the report of the International Apple Shippers' Association. From this we find that in December 1898, there were 800,000 bushels in cold storage; in 1899, 1,580,000; in 1900, 1,226,000; in 1901, 1,771,000; in 1902, 2,978,000; in 1903, 2,348,000 bushels of apples in storage. The principal fruit distributing centers are now supplied with storage warehouses. Indeed the store house has been multiplied in the producing centers and some of the best equipped plants that we know of, are situated in the Lake Ontario counties of Western New York.

A very important article by G. Herold Powell, on this subject appears in the Year Book of the Department of Agriculture for 1903, under the title of the "Relation of Cold Storage to Commercial Apple Culture." In discussing the influence of cold storage on the keeping qualities of the apple, Mr. Powell lays down several principles. Among these he emphasizes the fact that the fruit as it comes from the tree is a living body; that life processes are only retarded not arrested by cold storage; that apple scab and fungous diseases generally are influenced in the same way, but that there are certain low forms of fungi, as blue moulds for instance, that will grow on decaying or decayed fruit even at freezing temperatures.

The article also emphasizes the point that the condition of the fruit on entering storage, is an important factor in influencing its behavior while in storage. In other words it is very difficult to get two lots of fruit exactly in the same condition; and if they are not in exactly in the same condition, it is unreasonable to suppose that they will keep in precisely the same manner in storage.

A temperature varying from 31 to 32°F. is recommended as an ideal temperature for keeping apples, although it is stated that some varieties of winter apples, in prime condition, can be satisfactorily stored in dry atmospheres in temperatures varying from 34 to 36°F. It would appear that the ideal storage apple is one fully grown and properly colored but one which is still hard and firm when taken from the tree. It is stated, and this is contrary to public opinion, that an apple picked prematurely ripens more rapidly in storage than one in a more mature condition; that immature fruit deteriorates as quickly or more quickly than fully matured fruit. This seems to controvert the prevailing idea that fruit must be picked "green" in order to keep well.

One of the most interesting paragraphs in this article, is that relating to the development of "apple scald" in storage. This appears to be one of the greatest difficulties with which apple storage men have to contend. It develops as a rule with great rapidity, but usually toward the end of the storage season. The scald makes its appearance as a brownish discoloration on the green parts of the fruit. The scald appears to be caused by a ferment which works in the tissues just beneath the skin. The trouble is not deeply seated, nor is a great deal of the apple tissue destroyed but the salability of the fruit is greatly impaired.

The author of the article states that well grown apples when properly stored in a sufficiently low temperature are not likely to be affected by scald. Varying temperatures are likely to induce the development of scald. Then, again some varieties are much more susceptible to injury from this malady than others.

The author says in closing, that while the export trade in apples has increased rapidly yet it is surprising to note that less than 20% of the apple exports of the United States in the year 1902, were sent to points outside of Great Britain. This suggests vast possibilities for the trade in the years to come when the European markets shall be completely invested

SHIPMENTS OF CALIFORNIA FRUIT.

The Sacramento Valley Development Association of Sacramento, California, reports that up to August 29, 1904, shipments of California fruits to eastern points have passed through Sacramento this season to date aggregating 3330½ carloads as follows:

Cherries	209	cars
Peaches	475	"
Pears	1400	"
Apricots	96	"
Plums	990	"
Grapes	150	"
Apples	8½	"
Figs	2	"
Total	3330½	cars

These figures cover almost the entire fruit shipments from the State. The total is considerably less than that of shipments to the same date last year. The shortage is principally in apricot and peaches, these crops being light throughout the State. Apricot shipments last year aggregated 231 special cars, peach shipments 1866 cars.

Cherry shipments are approximately the same as last year. Pear and grape shipments to date exceed those of last year. Grape shipments have barely begun. The crop is heavy and of good quality. The pear crop is unusually large. The prune crop is large and of good quality.

THE SUNNY SOUTH.

The May number of *North and South*, which escaped our attention before, is an especially interesting one. It is a strawberry number and contains a fine collection of strawberry stories, attractively illustrated. Certainly, there is a strong inducement offered to the reader to visit, if not to become a resident of the rich Alabama region described in this number. The following is an example of the glowing style of the issue:

"To thousands of people the South appeals as a delectable land. They regard with interest that wide section of the country, lying within a day's journey of the great commercial centers, where ice and snow are unknown. It would delight them to change from regions where they are "shut in" for half the year to a spot where there is not only health, and land to be had at low cost, but where all the days of the year are out-of-door days. But they have always regarded the South as distinctively "the land of cotton," and it is usually a surprise to learn of the opportunities for diversified agriculture which exist below Mason & Dixon's line."

Obituary.

ROBERT H. BLAIR.

Robert H. Blair is dead. He died on the 29th of August, at the age of 67 years. His death comes to his many friends in the west and elsewhere as a personal loss. We all loved to hear that hearty welcome and feel the thrill of that warm handshake wherever we might chance to meet him. He never married and being without a family he seemed to hold all his friends with a feeling of brotherly love. It was the fortune of the writer to be closely associated with him in an official way, in the Western Wholesale Association, for a number of years. I think I never met a more modest man, nor one more loyal. He had been a soldier of the Republic and participated in many of its battles for the saving of the Union. He never forgot the schooling of his early manhood, and always and to all persons loyalty to his country, seemed to be a cardinal virtue with him. He was one of the leading nurserymen of the west and proprietor of the Lee Summit Nurseries of Kansas City. Since the organization of The Western Wholesale Association he has been one of its most active members. I think its minutes will show that he has never missed a meeting. He will be sadly missed.

The deceased leaves two brothers and five sisters. One of the brothers, J. C. Blair, is a member of the nursery firm of Blair & Kauffman. To his immediate friends and relatives we gladly extend the hand of sympathy knowing full well the measure of their loss. [We have also received a sympathetic and appreciative note from Col. U. B. Pearsall, Leavenworth, Kas.—Ed.]

A. L. BROOKE.

Sir William Henderson.—The gardening World of July 2 mentions the death of Sir William Henderson, L. L. D., of Aberdeen. Sir William was a great supporter of horticulture and had one of the finest ranges of glass houses in the surrounding country. R. S. N.

Ritchie Brown.—A wide circle of friends will learn with much regret of the decease of Mr. Ritchie Brown on the 9th of July. He was a man of untiring energy and an ardent supporter of everything appertaining to forestry. Mr. Brown was one of the founders of the English Arboricultural Society and had held many important positions in various horticultural and forestry societies
Gardeners' Chronicle, July 16, 1904. R. S. N.

Edmund Hyde.—The death of Mr. Edmund Hyde is recorded in the *Gardeners' Chronicle* of July 23. This gentleman demands notice from having been the first to suggest the use of cocoanut fibre for horticultural purposes. R. S. N.

The passing of John Rock, the pioneer nurseryman of Santa Clara county, removes one who has exerted a greater influence upon horticulture in California, perhaps, than any other one man. He came to California in 1866, and shortly thereafter established the John Rock Nursery. He introduced many of the best varieties of fruit trees, and was prominently identified with the industry in many ways. In later years he has been at the head of the John Rock Nursery Company, into which his business was merged.—*Pacific Fruit World*.

Grove P. Rawson, a prominent florist of Elmira, N. Y., died suddenly while engaged in decorative work at Binghamton on Sept. 8. Mr. Rawson stood high as a practical florist and was well known as a writer on horticultural topics.

JACOB WARREN MANNING.

Jacob Warren Manning, of Reading, Mass., who died at that place on Sept. 16, 1904, aged 78 yrs., 7 mos., 24 days, was one of the leading horticulturists and nursermen in the state. He was born at Bedford, N. H., on Feb. 20, 1826, of old New England stock. In 1849 Mr. Manning began to attend the meetings of the Massachusetts Horticultural Society, and was on the fruit committee for many years. He was also a member of the old Middlesex Agricultural Society, The North Middlesex Society, the American Nurserymen's Associ-

ation and the American Pomological Society. He served on the committees of the latter with Charles Downing, author of "Fruits of America." Several times he was the recipient of the Wilder medals, instituted by the late Marshall P. Wilder, as prizes for superior exhibits in horticulture.

But Mr. Manning's activities did not end here. He was a moving force in the Massachusetts Fruit Growers' Association and in the Agricultural Society, and was one of the earliest members of the American Forestry Association. He was an active member of the Association of American Nurserymen and a regular attendant of the meetings. He achieved a wide reputation as importer, raiser and introducer of large and small fruits and ornamental shrubs and trees. The Cutter seedling strawberry was introduced by him; also the Dracut amber grape.

Mr. Manning was married in 1858 to Miss Lydia Brooks Chandler of Concord, N. H. She survives him, with five sons. Two of his sons J. Woodward and Warren H., are among the prominent American landscape architects. For over forty years Mr. Manning never missed a meeting of the American Pomological Society. His loss will be mourned by friends from the Atlantic to the Pacific.

THE NUT GROWING INDUSTRY.

By J. F. Wilson, Sec'y National Nut Growers' Association.

The value of Nut bearing trees, both as crop-producers and for timber, has long been recognized. Individual efforts have frequently been made in times past to encourage planting, but with indifferent success. Public sentiment however gradually acknowledged the money making qualities of nut trees, and particularly the pecan in the Gulf States. Wonderful profits were predicted, and many bought nuts and trees, which often went the way of the transgressor. No reliable information was accessible to the public, and the most extravagant claims went unchallenged.

The situation was such, that the fraudulent dealer was abroad in the land, and his victims were numerous. During the past three years a great change has been wrought. The National Nut Growers Association was formed, and came to the rescue of the struggling industry. Its purpose is to give reliable information, expose frauds, exploit the superiority of grafted and budded trees and bring choice varieties into public notice. These beneficial and far reaching results are being accomplished largely, through the instrumentality of *The Nut-Grower*, the official organ of this Association.

There is no agricultural pursuit which promises more certain, and profitable crops. No industry embodies to a greater degree, the elements of safety, profit and permanence, as an investment. Thousands of people all over the South can make their homes and farms, places of increased pleasure and profit by planting nut trees best suited to their locality.

There appears to be no danger of overproduction of edible nuts. Increase in demand is greater than the increase in planting, while increase in population will regularly enlarge the market. Large quantities are now imported each year and importations are on the increase, as many new uses are springing up, and only await lower prices in order to be extensively used. Then the recognition of nuts as a most valuable food product cannot fail to create a new and largely increased consumption.

Another consideration gives assurance of success, and that is the popular aversion to what is known as "Long time Investments." This will effectually prevent any overproduction, as most men are prone to want early returns on their labor and capital. The wise and thoughtful, however, will look beyond the present; they plant, and labor while they wait, and as time passed surely and swiftly, to those who are diligent, they soon come into a rich inheritance. While this presentation of the subject may seem roseate or overdrawn, the fact remains, and will be attested by those of experience, that Nut growing is a most pleasant and profitable occupation. Any one of intelligence and industry can safely and profitably plant for domestic use, still the commercial growing of this crop, requires ability and skill, with a thorough knowledge of the business, just as surely as those elements are needed in other occupations.

Correspondence.

WARMLY APPRECIATIVE.

BERLIN, MD., Sept. 1, 1904.

National Nursery Publishing Co., Rochester, N. Y.

GENTLEMEN:—The writer just returned to the office this morning after an eight weeks trip through sixteen states including two days in Canada, which has kept him moving very rapidly.

I learn that Mr. John Craig has become the editor of THE NATIONAL NURSERYMAN. This certainly is a matter for congratulation as he is a man who has been through some the hardships of nursery life. It should be to the advantage to the nurserymen's interests of this country, to have a man of this type, editor of the paper that is recognized as the official organ of the nurserymen of the United States and Canada.

Our "ad" with the NATIONAL NURSERYMAN was placed in the first issue and I do not believe it has escaped a single copy up to this date.

Trusting you may have continued success with your paper as the nurseryman's guide and reference book, I remain

Yours very truly,

J. G. HARRISON & SONS.

BUSINESS FLOURISHES IN IOWA.

Our stock this season has made the best growth we have had for the past three years. The weather has been favorable for nursery stock and we have had sufficient rainfall to keep everything in nice condition. Roses, evergreens, apples and cherries seem to have made the best strides. One year apple grafts are not as heavy as usual. Grapes have an abundance of top, but we have not examined roots.

Cherries seem to be in good demand, also European and American plums.

Our sales up to this time compare favorably with previous years, in fact we are somewhat ahead of last year's sales at this time. We never had a better haying and harvest sale than this year. The outlook for business this winter is good. This is if Iowa is allowed to mature her corn crop. Small grains all harvested and fair crops reported, and if the corn is allowed to mature before frost we think that nursery sales in Iowa will be O. K.

Trusting that the above information will be of interest and wishing the NATIONAL NURSERYMAN continued success, we remain,

Yours truly,

Des Moines Nursery Co., Des Moines, Ia.

FINE STOCK IN IOWA.

LOUISIANA, Mo.

We beg to say we have several of the finest blocks of Jap. pear seedlings and apple seedlings at Atlantic, Iowa, we have ever grown. These latter are mostly from Vermont seed. Silas Wilson always claimed to grow the cleanest seedlings in the country; and to secure such seedlings and an ideal location we purchased the Wilson nursery. We have not had the opportunity since our return to personally go through our several plants but the growth as reported is very satisfactory indeed. Sales are satisfactory, exceeding expectations. The outlook for spring is promising and doubtless the trade conditions next spring will show quite an improvement over last spring.

Truly,

STARK BRO'S NURSERIES & ORCHARDS CO.

A LINE FROM KANSAS.

KANSAS CITY, Mo., Aug. 29, 1904.

The forepart of the season here was very wet which retarded the growth of stock considerably, but later it has been very good growing weather and stock has been doing very well. Owing to the high water in 1903 we have only a light stock of peach, plum and No. 2 year apple, but a good standard of 1 year, but our ornamental stock is doing as well as we ever had it do. It has made a splendid growth and is a good stand. Also grapes, currants, etc., of which we have a very heavy stock is doing nicely. Our apple seedlings are looking very promising.

Very respectfully,

BLAIR & KAUFMAN.

THE SITUATION IN DANVILLE.

DANVILLE, N. Y., Aug. 25, 1904.

Editor National Nurseryman:

We are pleased to note the active interest you are taking and we are also glad to give you any information that you may desire.

The season with us has been exceptionally fine for the growing of nursery stock. We suffered somewhat by frost last winter, but with the seasonable rains and cool spring, nature has repaired the damage so there is but little trace of the winter's work. European plums show in a small degree the effects of the winter but standard pear, cherry and apple were never better,

Yours truly,

MOREY & SON.

THE PACIFIC NORTHWEST.

SALEM, Oregon, Aug. 24, 1904.

Editor National Nurseryman:

We may say that the past season has been the driest one we have ever experienced in Oregon as we have had scarcely any rain since the middle of April, and as a consequence apples will be somewhat undersized, though of first quality. There are not sufficient apple seedlings or seedlings of any kind grown on the Pacific coast to make any statement regarding them. Cherry trees will probably be up to the usual standard as to size and quality, also plum and peach. Pear trees, however, will be both short in number and undersized.

On account of dry weather the percentage of loss in seedlings planted last spring will be much greater than ordinarily, so this will have a tendency to decrease the output for another year; and as there was a shortage in planting (especially of apple seedlings) on the coast this spring, we look for quite a shortage in nursery stock generally next year. You, of course, understand that this does not mean that nursery stock has been so very much injured on account of the dry weather, but it is not quite up to our usual standard. Business, however, is exceptionally good this year and so far as we know, the nurserymen generally on the coast have increased their sales over the same period last year.

Yours truly,

M. M. McDONALD, OREGON NURSERY CO.

A PEONY SPECIALIST HEARD FROM.

We beg to advise you that we have removed our main nursery office to Lincoln and Peterson avenues, Chicago, where the nursery is located. We will continue, however, in our city office room [21, 164 La Salle Street, as the headquarters of our Landscape Department which is constantly increasing in capacity and importance.

The advertising will be attended to from this office as well as being a place where orders may be placed personally and cash paid.

We also wish to state as a matter of interest to the trade, that we have sent to Cornell University to be put in their Peony testing fields, 18 specimens and 107 varieties of Peonies.

Very respectfully,

PETERSON NURSERY.

CHICAGO, ILL.

A NOTE FROM FRANCE.

The well known French house, the Andre Leroy Nurseries of Angers, writing through its New York agent on the general situation of the crop of fruit seedlings and shrubs in France, reports as follows:

"We have had during the summer, heat and drought such as the oldest inhabitants in our district have never seen before. From the 8th of June to the end of August, we did not have a drop of rain. In July for a period of nearly two weeks, the mercury rose every day from 112 to 116 degrees in the shade, and on July 29th, it reached 120 degrees.

Where seedlings and shrubs could not be watered, their growth was practically stopped and as a result we shall have a great scarcity of large size stocks, and a great many shrubs have died. Those that have sold stocks early without having the goods on hand, or being safely covered, will find themselves in a tight corner at time of shipment.

You may think we were too conservative in holding back offers in June, but we are now congratulating ourselves to be with some surplus stock on hand."

Yours very truly,

NEW YORK.

A. L. CAUSSE.

October Offerings.

For staple fruits, consult the Abilene Nurseries of Kansas.

Linton & Kaup, Des Moines, Ia., offer a select lot of rhubarb plants. Observe the advertisement for foreman by the Davis County Nurseries.

B. W. Stone & Co., Thomasville, Ga., are making a specialty of pecans.

Southern types of fruits are offered by the Cureton Nursery, Austin, Georgia.

Conifers and ornamental trees in quantity by Barbier & Co., Orleans, France.

Berberis Thunbergii is grown by the Bay State Nurseries, North Allington, Mass.

Boblink & Atkins have an especially full line of autumn bulbs and ornamental shrubs.

The Nursery Pruner, N., by Maher & Grosh Company, is popular among nurserymen.

James M. Kennedy, Dansville, N. Y., is ready for fall delivery with a full line of fruit trees.

Notice the attractive list of ornamentals and fruits offered by the Phoenix Nursery Company.

W. T. Hood, Richmond, Va., visited Rochester, Geneva, and other western points last month.

The New Haven Nurseries of Missouri are long on peach and cherry trees. Note their advertisement.

Back's Nursery offers in quantity the Austin Improved Dewberry and Back's Black Prolific Currant.

The Oakland Nurseries, Manchester, Connecticut, are ready for fall delivery with a complete assortment.

The Australian Nurseryman, Seedsman and Florist, bids for American patronage in this issue of our journal.

For fruit tree stocks and fruit tree seeds, consult the advertisement of Thomas Meehan & Sons, Dreshertown, Pa.

Stephen Hoyt Sons' Company, New Canaan, Connecticut, offer October purple plums and California privets in fine condition.

Messrs. Cooper & Monerief, proprietors of the Winfield Nurseries, Winfield, Kansas, offer seedlings and root grafts made to order.

Thomas Meehan & Sons, of Dreshertown, Pa., offer a full assortment of reeds and chair-cane. They also draw attention to their large stock of "Red Star Raffia."

Mount Arbor Nurseries, of Shenandoah, Iowa, E. S. Welch, proprietor, offer for the season of 1904 a complete line of grafts, seedlings, scions, also a complete assortment of general nursery stock.

If the readers of the NATIONAL NURSERYMAN are interested in a new set of Wichuriana Hybrid Roses, they can obtain full description and photo of these roses by addressing Barbier & Co., Successors, 16 Route D'Olivet, Orleans, France.

Special attention is called to the advertisement of Levavasseur & Sons, Ussy and Orleans, France, who offer a full line of Fruit Tree Stocks, Ornamentals, Evergreens, etc. Nurserymen will do well to send their list of wants for next Fall and Spring, for prices, to Herman Berkham, Sole Agent, 60 Cortlandt street, New York.

CANADIAN CUSTOMS LAWS.

NEW REGULATIONS.

The Department of Customs in Canada has issued new regulations, the same to be enforced on and after October 1st, 1904. The special features are as follows:—

All packages must have a distinguishing mark or number. That mark or number must appear, not only on the invoice but on the way-bill.

Two invoices, are now required by Customs instead of one as heretofore. Invoices are required to be in a special form approved by the Department.

The fair market value as sold, without cash discount, in the open market in the country of production, must be shown on each invoice as well as the selling price to the Canadian purchaser. The "price" and "value" of the goods in every case aforesaid are to be stated as in condition packed ready for shipment at the time when, and at the place whence the goods have been exported directly to Canada.

New certificates are required on all Invoices. The old Form J stands repealed from October 1st, 1904, and Form M takes its place.

The German Surtax Certificate is continued.

When goods are consigned without sale by the Exporter prior to shipment, Declaration Form N takes the place of the Foreign Owners Declaration Form 6.

The Certificate formerly required under the Preferential Tariff remains in force, adding Form M when goods have been sold, Form N when goods are consigned.

The OATH on the Entry Papers to which the importer, or his agent on his behalf has to subscribe, has also been changed. The principal feature in Oath Form 1—taken when goods have been actually sold reads "That no arrangement or understanding affecting the purchase price of the said goods has been, or will be made, or entered into between the said importer and the exporter, or by any one on behalf of either of them, other than as shown in the said invoices, either by way of discount, rebate, salary, compensation, or in any other manner whatsoever."

The important changes in the Oath Form 2—taken when goods have been consigned reads "That none of the said goods have been sold by or on behalf of the owner and importer prior to their importation into Canada"

Through Bills of Lading must accompany invoices of European shipments and they must show a designated Port in Canada, (as in bond to Niagara Falls, Canada). The words in bond to Canada will not be accepted.

Copies furnished by N. B. COLCOCK,

Niagara Falls, Canada.

OVERFLOW FROM THE QUIZ COLUMN.

AN UNKNOWN EUONYMOUS.

ED. NATIONAL NURSERYMAN:

I mail you some sample twigs and fruit taken from a Euonymus which I have growing in the nursery. You will note that the branches are winged the same as the variety *alatus*. The fruit is, however, a little different and the leaf is not the same as the variety that I am growing for *alatus*. There is a marked difference in the fruiting. The fruit upon the variety that I mail you is a delicate pink when ripened, and I am at a loss to know just what to call it. Can you identify the plant?

Yours truly,

Elizabeth, N. J., Sept. 14th, 1904. H. T. JONES.

Ans. The specimens do not fit any of the published descriptions. They have been carefully examined by Mr. Coit, a graduate student in the Department of Horticulture of Cornell University, who makes the following report.—[Ed.]

"The specimen of Euonymus submitted by Hiram T. Jones, of Elizabeth, N. J., has winged branches like *E. alatus* Maxim. The leaves also are alike except that they are a little more sharply serrate in *E. Alatus*.

The fruit, however, is very different. It is not divided to the base as in *E. alatus*, but resembles very strongly the fruit of *E. europæus* Linn.

I can find no specimen or description of the plant, and therefore conclude that the plant is either a foreign production not generally introduced into the American trade, or else it is a chance hybrid between *E. alatus* and *E. Europæus*."

Cornell University.

J. ELIOT COIT.

AURORA NURSERIES

AURORA, ILL.

Have about 50,000 rooted Shrubs and Roses from 2 inch pot or cold frames which are in surplus. These are first class.

Write for list.

AURORA NURSERY CO., Proprietors.

Aurora, Ill.

WANTED

A purchaser for $\frac{1}{2}$ inch and $\frac{5}{8}$ Sour Cherries, also for the same grade of **Std. Pears** and **Plums**. If you can use any of this grade of stock, write me and I will give you prices that will secure your order.

D. H. PATTY, Nurseryman, Geneva, N. Y.

The Abilene Nurseries.

We have a fine lot of first class Nursery Stock to offer to the trade. Our Specialties: APPLE, PEACH, CHERRIES, PLUM, NECTARINE and FOREST TREE SEEDLINGS. We also have a big stock of three year old Forest Trees, Elm, Ash, Catalpa, Soft Maple and Honey Locust. We can furnish most anything in our line. Write for prices. We want your trade.

W. T. GOUGH, Prop. ABILENE, KANSAS.

20,000 Three Year Old Apple Trees, nice and smooth. Good Assortment

Oregon Nursery Co. Ltd.

WE MAKE A SPECIALTY OF GROWING
**RAMBLER AND OTHER CLIMBING
ROSES**

ON OWN ROOTS.

**Cut Leaved Weeping Birch and
Carolina Poplar**

FOR THE WHOLESALE TRADE.

Cut Leaved Birch, 2 years, 6 to 8 feet, as straight as an arrow, nicely branched, their equal cannot be grown any place else in the United States.

Our soil and climate is the finest in the world for producing these special kinds.

Contracts made now for Rambler Roses, Carolina Poplars for delivery Fall 1905 and Spring of 1906. Cut Leaved Weeping Birch, delivery Fall 1906 and Spring 1907.

Special inducements to parties contracting in car-load lots.

**OREGON NURSERY CO., Ltd.,
SALEM, OREGON.**

The way to go to the
WORLD'S FAIR is via

Wabash R. R.

The only line landing passengers
at the main gate of the

LOUISIANA PURCHASE EXPOSITION St. Louis, Mo.

TRAINS LEAVE BUFFALO DAILY

2:00 a. m., 8:15 a. m., 1:30 p. m., 8:30 p. m.

ARRIVES WORLD'S FAIR STATION

7:01 p. m., 7:19 a. m., 7:50 a. m., 1:31 p. m.

ARRIVING UNION STATION

7:15 p. m., 7:33 a. m., 8:04 a. m., 2:00 p. m.

Season Tickets, \$28.40

60 Day Tickets, \$23.70

15 Day Tickets, \$19.75

Coach Tickets good one week (sold Tuesdays and
Thursdays) \$14.00

Pullman's Newest Type of Sleepers. Electric Lighted Chair
Cars (Seats Free.) Wabash Dining Cars.

**Ticket Office, 287 Main Street
ELLICOTT SQUARE.**

C. S. CRANE,
Gen'l Pass. and Ticket Agt.
ST. LOUIS, MO.

R. F. KELLY,
Gen'l Agt. Pass. Dept.,
BUFFALO, N. Y.

JAMES GASS, N. Y. S. P. A.

When writing to Advertisers mention the National Nurseryman.

Nurseries For Sale

Have made 7 to 10 per cent. for years.

Have ONE OF THE LARGEST FORCES
OF SALESMEN.

Fall sales about \$30,000.

Spring sales about \$45,000.

Have a large stock and splendid blocks
of young growing Fruit Trees, Plants, and
a very complete line of ornamentals.

Old established stock has excellent repu-
tation.

Have splendid up-to-date management in
office and field.

Have best of facilities, including Trunk
Line, Rail Roads, Electric Line, etc.

Owing to the enforced retirement of two
of the Company they desire to sell.

Cash or a good note will be accepted.

7 to 10 per cent. on your investment,
besides **\$10,000 to \$25,000 made
by purchaser.**

Apply to "MUTUAL"

care of *National Nurseryman*

THE

Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

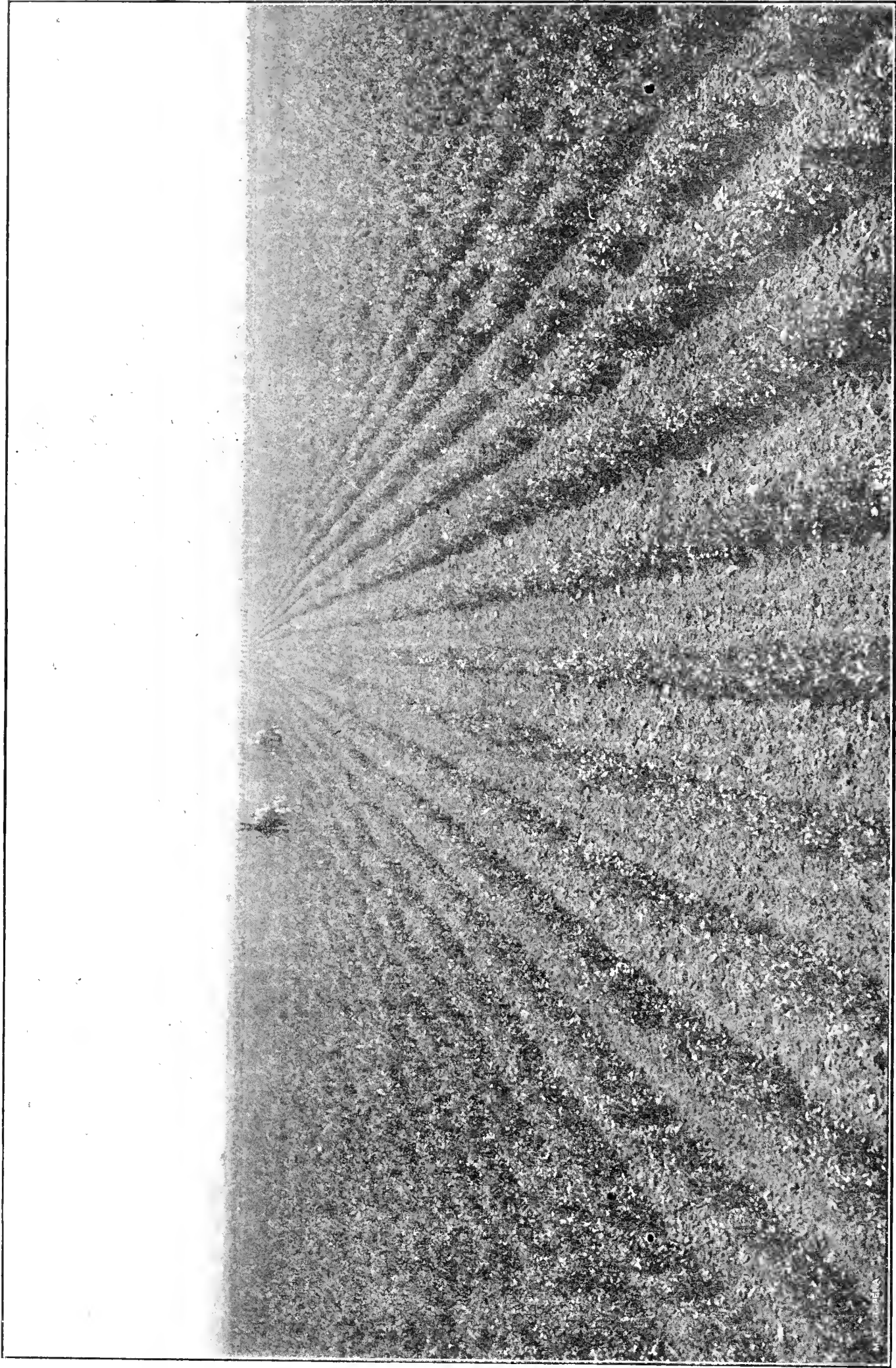
Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.

Fall trade list on application.

W. & T. Smith Co., GENEVA, NEW YORK.

When writing to Advertisers mention The National Nurseryman.



Here is a fine view of a tremendous area in apple seedlings. The owners, L. R. Taylor & Sons, proprietors of the Topeka Nurseries, claim that it is the largest individual block of apple seedlings in America. It is estimated to contain 15,000,000 stocks. The land is "brand new" and the stocks are free from "root gall." There is a pleasure in growing such a block—aside from handling the shekels.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XII.

ROCHESTER, N. Y., NOVEMBER, 1904.

No. 11.

SKETCH OF THE DEVELOPMENT OF THE NURSERY BUSINESS IN CALIFORNIA.

F. A. MILLER, SAN FRANCISCO.

In giving the readers of THE NATIONAL NURSERYMAN a sketch of the historical development of the nursery business of California, I must base my attempt entirely on my recollections, which are somewhat deficient at my advanced age.

The first general nursery of ornamental as well as fruit bearing trees and shrubs was established by Mr. A. P. Smith about 1852 on the banks of the Sacramento river, near Sacramento city, the state capital of California. Mr. Smith cultivated a very meritorious collection of ornamental and fruit bearing trees, shrubs and vines, which would be considered a credit to his state at the present time. The undertaking, unfortunately was "ahead of the times." This very select stock had plenty of admirers, but the early pioneers came here for gold and had no time nor humor to cultivate plants. True, his first ripe peaches were sold at \$1.00 each and his roses in pots and in bloom, which he transported under difficulties to the mines brought \$10 to \$15 each at auction in Nevada city in my presence. The nursery was not a financial success and Mr. Smith failed after a few years hard struggle. Some of his fine Camellias, which made a phenomenal growth in the open, to the height of ten feet to twelve feet, were dug up and removed to San Francisco by Mr. E. L. Reimer who sold the flowers, produced by the hundred, at \$1.00 each.

From 1855 to 1865 several ornamental stock nurseries were established in San Francisco; Golden Gate Nursery by Mr. Walker, another by Mr. E. L. Reimer and a third one by Mr. Henry Sontag, all of which have gone out of existence years ago. During the same period a number of nurseries were established in the rural districts of California with ornamental as well as fruit bearing stock. The most prominent of them were Mr. West of Stockton, Mr. Fox of San Jose, Mr. Burbanks of Santa Rosa and Mr. E. Gill of Oakland.

The most profitable ornamental trees during the period were Araucarias, Acacias and Eucalypti in many varieties; Pittosporums, Leptospermums and other evergreens from Australia, all of which are well adapted to this climate, but not as much in demand now as they were then. The most popular evergreens introduced during the same time were *Pinus insignis* (Monterey pine) and *Cupressus macrocarpa* (Monterey Cypress) both of them natives of California. The first lot of *Cupressus macrocarpa*, four to five feet high, sold at \$5.00 each; the same size to-day sells at 25 cents each, or \$15.00 per 100. The demand for them has increased from 500 per season at that time to 25,000 to-day.

In 1875 the first horticultural society was formed, several very fine exhibitions were held, but the people would not sustain them.

In 1884 the largest general nursery was established at Niles.

It consisted of 500 acres under the management of Mr. John Rock, and is known up to this date as the California Nursery Company. Mr. Rock died July 20th. He was a remarkable man, closely identified during a long and useful career, with the inception, development and final establishment of an enlightened horticultural practice in California; a personality at once pronounced, broadly human, intensely serious, patriotic, imbued with a healthy ambition, and a broad civic pride in the state and country of his adoption; a trained horticulturist, a man of integrity and honesty of purpose in everything he said or did.

To-day we have about 140 nurseries in the state, all of them in a fairly prosperous condition, about 30 of them are engaged chiefly in propagating citrus fruit trees, about 35 in fruit bearing trees and shrubs generally and about 75 in stock of all kind, mostly ornamental.

THE NEWER FRUITS.

AIKEN APPLE.

Sometime ago the NATIONAL NURSERYMAN drew attention to a number of new fruits which had received special mention in the report of the United States Promologist. Among these was the "Aiken" apple. Recently samples of this apple came to the editor's table. The specimens examined are of medium size 3 inches in lateral diameter by $2\frac{3}{4}$ inches in axial diameter. The form is regular with obscure ribbing; color, a yellow ground, almost entirely covered with a bright red shading into crimson. One of the characteristics of the variety is its large dots which are plentifully scattered over the surface. The cavity is of moderate size and flaring. The basin is shallow and wrinkled, with a small closed eye. The flesh is yellow, firm, juicy, pleasant subacid of rather melting texture. The core is small but open. The seeds are small and plump. Altogether this is a very attractive winter variety. It suggests lack of spiciness and aroma when fully ripe. There are also hints that it has not proved a prolific bearer.

If the tree proves satisfactory and if it finds its place of adaption, it ought to prove a very valuable acquisition to the Middle West where the lack of a handsome winter apple of good quality seems to be sharply felt at the present time.

THE FRUIT MARKS ACT OF CANADA.

It is announced that in the future the Fruit Marks Act is to be more rigidly enforced. If a few packages in a shipment of fruit are found to be improperly graded the whole shipment is to be thoroughly inspected. The time is ripe for the taking of such a step. The act has now been long enough to force to leave no room for any excuse on the part of shippers that they are not acquainted with its provisions.

It seems there are a number of packers who still resort to dishonest methods in the packing of their fruit in the hope that at the most only a small part of their shipments will be

detained by the inspectors. A few sharp lessons to these parties should be a benefit to the whole trade. The numerous testimonials from British commission dealers that have been published in *The Horticulturist* recently concerning the benefits that have resulted from this act, indicate that a still better enforcement of its provisions, if not too rigid, will not be likely to cause much damage to our fruit trade.

The Canadian Horticulturist.

A SURVEY OF ORCHARD CONDITIONS IN WESTERN NEW YORK BY THE CORNELL EXPERIMENT STATION.

An important piece of work of a comprehensive character was commenced last year by the Experiment Station of Cornell University and is still in progress in Western New York. This is a critical examination of the condition of the apple orchards in the western lakes counties of the State.

The survey divides itself into two parts. One relates to the soil and includes the study of economic geological features, the topography, and type of soil. The second part relates specifically to the trees themselves. It includes a census of trees, age, distance of planting, kind of culture, vigor, productiveness and profits.

In addition to these, broad economic questions are investigated. For instance, whether the orchard is worked by the owner or by the renter? Wayne County has already been examined in this manner. The data are being worked up and put into form for publication.

The findings are proving valuable and exceedingly interesting. They corroborate in general the precepts of the best horticultural teaching of the past ten years and favor wide planting, good culture, and constant spraying. Such evidence as this is needed from time to time in order to impress in an effective manner, the lesson of good orchard management upon fruit growers.

CONSUMPTION OF LUMBER BY THE BOX PACKAGE.

It required 126,000,000 feet of lumber, surface measure to provide boxes for the citrus produces by Southern California the present year. This amount of lumber made something over 10,000,000 boxes equal to about 30,000 car loads of fruit. This means that the shipments of all oranges exceeded by 8,000 car loads that of any previous season. The prospects for the orange crop next year is not so promising.

COURT ISSUES ITS DECREE IN THE ROUTING CASE.

Judge Wellborn on Tuesday last issued his final decree of injunction in the routing case, by which the Southern Pacific and Santa Fe railroad companies are forbidden to refuse to shippers the right to route shipments as they choose. This is one of the most important victories gained by the growers in the series of legal battles which have been waged between the growers and the transportation companies. It means that the railroad companies will no longer be allowed to pool their interests for the routing of oranges. Henceforth they can not arrogate to themselves the right to say by what route shipments of citrus fruits shall be transported over connecting lines to points of destination.

All this is distinctly and directly beneficial to the grower. The injunction is in the form of an order, and requires the defendants to obey the order of the Interstate Commerce Commission. The significant clause of the decision is: "For combining in restraint of trade and violating the provisions of the Sherman Act, the officers of such corporations shall be held guilty of conspiring against the peace and dignity of the United States."

The decree of injunction will not go into effect for twenty days, the

court having given the defendants desired time in which to prepare for an attempt to show that the court was not one of competent jurisdiction.—*Pacific Fruit World.*

THE SEASON FOR GROWTH AND RIPENING OF NURSERY STOCK.

Low temperatures have characterized the season. These were not peculiar to any one region. The feature of the season in the west were the heavy rains of the forepart of the summer. These retarded the growth and in many cases actually injured nursery stock. The latter part of the season has been more favorable and stock which grew slowly in early summer, has recuperated. It is quite likely that the close of September saw the nursery stock in general, in a very satisfactory condition, the country over. From the orchardist's standpoint, as well as the nurseryman's the character of the autumn has an important part in putting the finishing touches on trees in nursery and orchard. Ripening processes which are retarded by wet weather and encouraged by dry weather have much to do with the way in which trees come through the winter. A wet fall encouraging late growth is often followed by winter-killing. In most parts of the east, the latter half of August furnished ideal weather for ripening of nursery and orchard trees. The warm and moist streak in the fore part of October was not of sufficient duration to injure stock so that trees should go into cellars or winter in the field in good condition.

FRUIT STOCKS.

Nurserymen who have not yet ordered French Stocks, in the way of Fruit Seedlings, Ornamentals, Evergreens, etc., for next spring's planting, would do well to send their list of wants, without delay, to Herman Berkhan, 60 Cortlandt street, New York, sole agent for Levavasseur & Sons, Ussy and Orleans, France, wholesale growers and largest shippers to this country. Reliable stocks, good grading and packing, prices right. Trial orders solicited from those who have not yet bought of us.

A PROMINENT WHOLESALE HOUSE.

The firm of L. R. Taylor & Sons, proprietors of the Topeka Nurseries, had its origin in Adams county, Pennsylvania, in the year 1840. The senior member of the present firm, Mr. L. R. Taylor, moved to Topeka, Kansas, in 1869 making the first plant near Topeka the following Spring; thus establishing the first nursery at Topeka, and being one of the pioneer nurseries of the West.

A partnership was formed with Messrs. Peters & Skinner in 1890 under the name of Taylor, Peters & Skinner. This partnership was dissolved in 1893 and the name changed to L. R. Taylor & Sons, which is the present style of the firm.

These nurseries do a strictly wholesale business; their chief product being apple, cherry, peach, plum, and Pear trees, apple and pear seedlings.

Recognizing from the first the superior quality of the soil in the Kansas River valley for the growing of apple they have made the growing of apple trees and apple seedlings their specialties. Their trade has grown on these two staples until they now plant each year something over 100 acres of apple seedlings and 1,500,000 apple grafts.

The firm uses in connection with the nursery business some 500 acres of ground, between 300 and 400 of which is closely planted to nursery stock.

In order to procure new land for their apple seedlings and apple trees they have established a branch nursery at Rossville, Kansas, which is up the river valley some 15 miles west of Topeka. They made their first plant in this vicinity the past spring, and expect to plant 160 acres at that point next year.

Doings of Societies.

ANNOUNCEMENT OF AMERICAN PEONY SOCIETY.

A CO-OPERATIVE STUDY OF THE PEONY BY THE HORTICULTURAL DEPARTMENT OF CORNELL UNIVERSITY AND THE AMERICAN PEONY SOCIETY.

The American Peony Society at its last meeting in New York agreed to co-operate with the Horticultural Department of Cornell University for the purpose of making a study of all varieties of peonies that it is possible to secure at the present time. This study is to extend over a sufficient period of years, to enable the investigators to cover the following objects: **PURPOSES OF TEST.**

1. **NOMENCLATURE.** To bring order out of the confusion which now exists in the naming of varieties. This part of the study will establish correct names by applying rules of nomenclature and will furnish growers with accurate descriptions of all authentic varieties.

2. **BOTANY.** To ascertain the botanical status of each variety. In other words, to refer it to the species from which it appears to have been derived.

3. **CULTURAL.** Careful studies of varieties shall be made in order to determine the commercial values of the different kinds. Such points as vigor, health, floriferous qualities, and colors shall be noted. It is also expected that fertilizer experiments designed to influence the size and shipping quality of the flowers shall be included.

CONDITIONS GOVERNING TEST.

1. The land, the labor of planting and all subsequent care are provided by the Experiment Station. All notes are taken by the Station according to a scheme arranged and co-operated in by the Committee on Nomenclature appointed by the American Peony Society.

2. **PLANTS.** The plants are to be furnished, free of cost, by the American Peony Society, members thereof, or interested growers of peonies. Three plants of each variety shall constitute a test, but the donors may send one or two if more are not available.

3. **FINAL DISPOSITION OF THE PLANTS.** At the close of the test, in perhaps four or five years, Cornell University Experiment Station shall be entitled to a complete set of two plants each of all distinct varieties. Each contributor of plants to this test shall be entitled to to as many plants of distinct varieties as he originally contributed, provided they are available after the Experiment Station set has been made up. The remaining plants shall become the property of the American Peony Society.

4. **PUBLICITY.** The results of the study shall be published in bulletin form by the Experiment Station. All members of the American Peony Society shall be entitled to a copy of each publication, and 100 copies of each shall be deposited with the Secretary of the American Peony Society for the use of members of this organization.

NOTICE TO DONORS.

Those who intend aiding in this important co-operative experiment should send their collections to the HORTICULTURAL DEPARTMENT, CORNELL UNIVERSITY, ITHACA, N. Y. Plants should be carefully packed, labelled, and accompanied by a list of varieties with number of plants of each kind forwarded. It would be well in forwarding the plants to notify Secretary Fewkes as well as the Chairman of the Committee on Nomenclature.

JOHN CRAIG, Horticultural Department, Cornell University, Ithaca, N. Y., *Chairman.*

C. J. MALLOY (Ellwanger & Barry), Rochester, N. Y.

JOHN A. CHARLTON, Rochester, N. Y.

J. F. ROSENFELD, West Point, Neb.

A. H. FEWKES, Secretary, American Peony Society, Newton Highlands, Mass. *Committee in Charge.*

The following firms have contributed the number of varieties set opposite their names. These have been received and planted by the Experiment Station:

Andorra Nurseries, Chestnut Hill, Philadelphia, Pa.....	43
Cottage Gardens, Queens, N. Y.....	19
DeGraff Brothers, Leiden, Holland.....	131
A. H. Fewkes, Newton Highlands, Mass.....	36
Jackson & Perkins Co., Newark, N. Y.....	41
L. Van Leeuwen & Son, Sassenheim, Holland.....	46
Peterson Nursery Co., Chicago, Ill.....	125
J. F. Rosenfield, West Point, Neb.....	143
W. & T. Smith Co., Geneva, N. Y.....	55

Total 639

BOSTON FRUIT MARKET REPORT.

The market conditions on apples here are a well supplied market for all common varieties, but lighter receipts for fancy high colored eating stock. Yet there is a good healthy demand for both; as everybody seems to have an idea that apples are exceedingly plenty, prices are low; therefore they have all started in to make a very large consumption.

There will be quantities of apples eaten this year owing to the opinion which has been extensively put forth of the very large yield. Quite a few apples have been sent to England, which cost the shipper on board steamer about \$1.25 per barrel. The results were not satisfactory. Telegraphic returns yesterday show that they sold over there \$1.25 to \$2.00 which would mean a loss of about 75 cents per barrel on the shipment.

Many of the large operators who have been in the apple exporting last year are paying one dollar per barrel for choice No. 1 Baldwins, on the expectation that the shipments going forward now will be of much better color and harder fruit. The stock which was sent forward a few weeks ago, and which has just been marketed in Liverpool was of the early fall varieties or some uncolored Baldwins. The Englishman likes a fruit which pleases his eye just as well as the American. They have ideas of beauty just as strong as we have.

From all that can be heard it does not seem as if the foreign markets would be able to take but a limited supply of apples and then only choice fancy fruit, such as high colored No. 1 Baldwins, at low prices.

Boston, Oct. 5, 1904.

A. WARREN PATCH.

THE WINTER KILLING OF BALDWINS.

It now looks as if Michigan apple growers must part with the Baldwin. In times past it has been one of the most popular apples of this state, though it has never been able to fully withstand the climate north of the two lower tiers of counties. Three plantings of Baldwins are recorded at the Agricultural College, and there is not now a bearing tree on the place all have succumbed to the cold.

The past winter has been exceptionally hard on this variety. Practically all of the trees out of the peach regions have been injured or killed, and not a few have suffered in localities where peaches are grown. In the northern counties all the Baldwins are reported killed. In a trip through the "thumb" of Michigan, in the early summer, the writer saw hundreds of trees of this sort that had not leaved out. It appears, judging from their behavior of last September, that the Baldwin apple is not more hardy than the peach and should not therefore be grown out of peach regions.

Can we spare the Baldwin? It is the opinion of the writer that we can and that there are several better standard winter apples. Baldwins have been overplanted in this state. As grown here they are not as handsome nor as well flavored as when grown in New England, where, for some unaccountable reason, they stand the climate better. The writer has never cared for the Baldwin as a dessert apple, counting it coarse and not well flavored. It has been planted and sold in this region largely upon its Easter reputation. Its habit of bearing only every other year is also against it. We are not sure that it is not a good thing that the Baldwin finds ours an uncongenial climate.

But the Baldwin is one of the most popular market apples of the country. It must have some good qualities and we must not dismiss it without enumerating them. It is possibly the most plastic of our apples—that is, it is least fastidious as to soil, culture, and within bounds, as to climate. Again, when well grown it is a splendid keeper—one of the very best; in the bearing years the trees are very productive; it is moderately free from scab and worms, though much effected by rots: lastly there are those who call it a good eating apple, but of these the writer is not one.

U. P. HEDRICK,

Mich. Agricultural College, in *Michigan Horticulturist*.

NOTHING SERIOUS.

Along the street, she passed so neat,

So pretty, charming, and so sweet,

A mere slip of a girl.

To see this girl was quite a treat,

But a banana peel disturbed her feet—

'Twas a mere slip of a girl.

—Exchange.

Obituary.

The readers of the NATIONAL NURSERYMAN will be glad to join with the editor in offering sincerest sympathy to Mr. Hobbs of Albertson & Hobbs, on the occasion of the untimely death of his daughter, a promising young lady of nineteen years of age. Her death which occurred in the early part of October was sudden and unexpected.

Telegraphic dispatches on October 1, announced the sudden death of Major Henry Alvord, for a number of years Chief of the United States Dairy Division. Professor Alvord was one of the best known men in this field in the United States. He graduated from Cornell University. He occupied various positions of importance and trust and at the time of his death was attending the Pure Food Congress in St. Louis. His presence will be greatly missed in agricultural and dairying circles.

JOSEPH W. THOMAS.

Joseph W. Thomas, the head of the well-known nursery firm of Joseph W. Thomas & Sons, proprietor of the Chester Valley Nurseries, near King-of-Prussia, Pa., died on the 19th of September, after a brief illness at the age of 73.

Mr. Thomas was widely and favorably known to the nursery trade and his death will be keenly felt in the community in which he lived and by a large circle of friends. The firm of which he was the head was established in 1854, although the business had its origin a few years earlier in the growing and sale of a few maple trees by his father, Charles Thomas. The firm at first was composed of Joseph W. Thomas and his brother, Ellwood Thomas. The latter retired about the close of the civil war, and the business was continued with a steady increasing growth. In 1884 his eldest son, Edwin W., was admitted to the firm, and in 1890 a younger son, Charles L., was also admitted, the firm name then becoming Joseph W. Thomas & Sons. The plant now comprises about one hundred and seventy-five acres of which sixty-five acres, is covered with nursery stock, composed largely of shade and ornamental trees, evergreens and shrubbery. Of recent years the business has grown rapidly and is largely in the suburban districts of Philadelphia.

Mr. Thomas took considerable interest in the grafting of a seedling black walnut, which he considered of great merit, and which bears his name. Throughout his business life he was concerned to handle only the best stock and cater to the wishes of his many patrons; his careful and conservative methods have given the firm a desirable reputation.

THOMAS J. DWYER.

Mr. Dwyer died on October 3rd. He was born in 1885 on the place where he carried on his life work and died. As a nurseryman, he began life with E. P. Roe, and afterwards worked in the nursery of J. T. Lovett at Little Silver, N. J. Later he founded the Orange County Nursery. Beginning with four acres of ground he gradually extended and for a number of years past, has done a very satisfactory retail business; issuing each year a neat descriptive catalogue which has been much prized by his patrons.

Mr. Dwyer was a prominent worker in horticultural societies. It was largely through his energy that the Eastern New York Horticultural Society was organized and did such good work for a number of years. In addition to his nursery work he found time to write a small yet very practical work entitled "Guide to Hardy Fruits and Ornamentals." *The Rural New Yorker* has done much to popularize this book which is certainly of considerable value to the home maker and gardener. His loss will be keenly felt in Eastern New York and by the fruit growers of the entire state.

The recent death of the Very Reverend S. Reynolds Hole, Dean of Rochester, England, removes one who may justly be termed the most eminent amateur rose grower in the world. He was founder and first president of the National Rose Society, of England, a constant exhibitor at rose shows and a regular contributor to the English horticultural press. He was also the author of several gardening books and of two volumes of reminiscences; his "Book About Roses" is a classic in its line. Dean Hole was a constant refutation of the idea

that old age must cut a man off from wholesome pleasures, or bring gloom and sadness in its train. He lived to be 85 years "young", his presence a benediction to all around, his love for the garden, "the purest of human pleasures," as Lord Bacon calls it, remaining a happiness to the end. When he visited this country, at the age of 75, he still retained the full strength and vigor of maturity, displaying the same genial wit and personal charm that figures so clearly in his writings. We like to dwell upon a life like this, where, with every opportunity for social advancement, and for association with the great ones of this world, the better part was chosen, and keenest pleasure found amid those things that may give equal happiness to every one, rich or poor, who has the freedom of earth and sun. [Contributed.]

PERSONAL AND BUSINESS MOVEMENTS.

We regret to learn that Mr. Chas. Greening, president of the Greening Bros. Nursery Co. Munroe Mich. Co. has been afflicted by illness which confined him to his room for some weeks in early autumn.

The Association of American Cemetery Superintendents elected the following officers at their 18th annual meeting: President, James H. Morton, "City Cemeteries," Boston, Mass.; vice-president, E. G. Carter, "Oakwoods," Chicago; secretary-treasurer, Bellett Lawson, "Paxtang," Paxtang, Pa.

The Ontario Government has been making experimental shipments of perishable fruits to Winnipeg and points in the Northwest territories. The results of these experiments appear to be satisfactory. Summer apples realized \$.75 to \$1.00 per bushel, pears, the same; plums from \$1.00 to \$1.10 per crate of 20 pounds; grapes \$1.40 to \$1.60 per crate of 30 pounds, and peaches from \$1.10 to \$1.25 per carrier.

The forty-seventh annual meeting of the Missouri State Horticultural Society will be held at Neosho, Mo., December 20, 21, 22, 1904.

L. A. GOODMAN, Secretary,
Kansas City, Mo.

J. C. WHITTEN, President,
Columbia, Mo.

Our Book Table.

Grasses. By Thomas Shaw. Pp. 453. Published by the Webb Publishing Company.

The book is divided into eighteen chapters and the subject of grasses is treated primarily from the standpoint of the farmer. Perhaps this is its strongest point. It takes up the economic grasses of the country, in succession and aims to tell farmers how to grow them. It is somewhat ambitious for any one to attempt to include in a discussion of this kind, the characteristics of each kind of grass, its adaption to climate and soil, place in rotation; how to prepare the land and sow the seed, how to pasture and harvest hay and how to renew the grasses when they have run out. This is, however, the task which the author sets out to perform. Whether the directions offered under each variety are feasible or not is a question which probably experience only can answer. The book is apparently a very valuable contribution to those who are interested in grasses.

Manual of the Flora of the Northern States and Canada. By W. L. Britton. Cloth, pp. 1,080, (Price not indicated). Published by Henry Holt & Company.

This manual covers the fern and seed plants native to the region between New Foundland and Labrador, to Manitoba, running south to Virginia, Kentucky and Kansas and west to the foot hills of the Rocky Mountains. The work is based practically on the text and illustrations, prepared by Britton & Brown, published in three volumes, six years ago.

The student will find much that is new in this volume. Many of the old names have disappeared and as there is no citation of former names, he seems at a loss to know what is new and what is merely renamed. The tendency of the author appears to have been towards the making of new species, or the splitting up of old forms rather than the lessening of species by the combining of closely resembling types. But when we recognize the variability of plants we must foresee the necessity of elasticity and constant change in their nomenclature. This book has been out long enough to have been thoroughly tested by the botanical public and it seems to be wearing well.

Quiz Column.

KINDS OF STORAGE HOUSES.

A correspondent asks for a discussion of surface store houses versus ordinary cellars for the storing nursery stock. The subject is important and timely. Mr. Smith of Ontario contributes an excellent opening letter and other good ones follow.

CANADIAN EXPERIENCE.

With regard to storage houses, I am afraid my opinion will be of little use to you, as I have had experience with only one kind of storage, and that is an above ground storage cellar. I have used this only in the following way, namely:

Heeling the trees in closely together in the natural soil; I could never bring myself to think that it would be safe to pile trees up with the roots exposed all winter as is done in some of the large nurseries. My way is a more expensive one however, as I can only store in my cellars two hundred thousand fully grown trees, although it covers a space of 108 x 200 feet. Still I feel satisfied to continue the method.

I use these cellars as running grounds. I have two of them, one on each side of my packing shed which is 80 x 108 feet—with doors opening on either side of it into six passages into each cellar, and up these passages the different varieties are alphabetically arranged in bins separated from each other by ropes. These are placed there in the fall, and need not be touched again until the trees are pulled out by the "runners" when ready to pack.

Of course I realize that to store a million trees, this way would be somewhat expensive and it might be worth while to consider some system whereby a larger quantity could be stored in a smaller space.

Winona, Ont., Can.

E. D. SMITH.

WESTERN EXPERIENCE.

We have probably had as much experience with surface storage houses as any firm in the country and greatly prefer them to anything in the line of a cellar. The under ground system was never satisfactory, usually more or less leakage, and always too much dampness, resulting in mouldy roots. We believe we were pioneers in the above ground system, and have to-day some fifteen acres under roof. In the past, our great need, as with all nurserymen, was more shed room, and we evolved a plain storage house of one inch lumber for walls, entirely surrounded by sheds from 16 to 36 feet wide. An inside false roof makes air space, the roofs and all walls being covered with tarred felt paper. The underground house was inconvenient; the house we now use is well lighted, convenient and keeps stock perfectly. With ample switches running inside our sheds, we never waste time "cussing" the weather.

Louisiana, Mo.

STARK BRO'S. NURSERIES & ORCHARDS CO.

STORAGE CELLARS IN WESTERN N. Y.

W. & T. Smith Co., Geneva, N. Y., are in favor of surface storage provided the roots of the trees are well covered with soil.

I believe I was the first person in this part of the state that ever stored any trees for spring shipment in cellars. Our first cellars were under ground, but at present the storage is entirely above ground which I regard as better in every respect than the old system of underground cellars.

Geneva, N. Y.

S. D. WILLARD.

SIDE HILL CELLARS.

We have two cellars connected, one being partially built in the side of a hill. The other is entirely above ground. And we are pleased to say we are successfully carrying stock in both.

If we were to build now we should investigate the plan of building concrete walls 6 to 8 inches thick, constructed with $\frac{1}{2}$ to 1 inch air space. Furring in, 1 x 1 inch hemlock strips on the interior wall to enable us to add additional lumber sheathing, paper lined air spaces.

The fact that we are successfully carrying trees in the two kinds prevents us making any preference.

Newark, N. Y.

C. W. STUART & CO.

POPULAR STREET AND SHADE TREES.

I am thinking of starting a nursery for the propagation and sale of shade and ornamental trees. I am especially interested in street and park trees. What kinds are in greatest demand at the present time?

Worcester, Mass.

W. F.

THE MAPLES LEAD.

Our sales the past spring lead us to believe that the Norway and Sugar Maples are being more extensively planted for lawn and street purposes than any other trees. Buttonwoods have been in demand for avenues and parks. Elms and Pin Oaks were popular shade trees on private places. Carolina Poplar was still wanted as a street tree and to give quick results. Sweet Gum, Linden and Weeping Willow were much sought after for lawn decoration. Indications for fall point to a continuance of the Norway Maples' popularity.

Morrisville, Pa.

THE WM. H. MOON, CO.

PLANT ENDURING KINDS.

Planters want the most rapid growing trees, such as Poplars and Soft Maples.

It is to be hoped that all who are in a position to do so will urge the planting of more sturdy trees. For one, I give *Acer dasycarpum* a wide berth, having seen so many of them ruined by wind at a time when the value of a better tree would have been almost incalculable.

Tarrytown, N. Y.

S. G. HARRIS.

THE DISCERNING BUY PERMANENT KINDS.

The present trend in regard to the varieties of shade trees planted in decorating grounds of those who take a pride in their estates is largely toward the native hard wood trees, such as Sugar Maple, American Chestnut, American Linden, Oaks of the various kinds and to a moderate extent Tulip trees.

The orders that I receive for street and avenue planting are largely of the same character except in the case of real estate speculative ventures, where it is desirous to secure shade in the least possible time, in which case Carolina Poplar is used more than any other tree. Soft Maple being a close second.

Elizabeth, N. J.

H. T. JONES

MAPLES AGAIN.

We believe that among the first trees that are popular for shade trees are the Schwedler and Reitenbach maples for the simple reason that they grow very much like the Norway and are about the same shape but the foliage is much more beautiful than the Norway. One half of the season they are a beautiful purplish color (almost as fine as the purple leaved Beech) changing later on in the season to a dull green, almost the same shade as the Norway. We would also recommend for a second choice the Norway and Sugar Maples, Ornamental Planes and Pin Oaks; and for the third, we would recommend the Silver Maple, Carolina and Lombardy Poplars and Catalpas. For strictly ornamental trees we would suggest the following: Horse Chestnut, Cut-leaf Birch, Young's Weeping Birch, Purple Beech, Weeping Purple Beech, Dogwood, Magnolia (*soulangiana* and *macrophylla*), Weeping Mulberry, Schwedler and Reitenbach Maple. We consider these the most desirable.

Elizabeth, N. J.

THE ELIZABETH NURSERY COMPANY.

UNITED STATES DEPARTMENT TO TEST CLOVER AND GRASS SEEDS.

It will interest nurserymen who handle seeds to read the following circular recently issued by the United States Department of Agriculture, taking effect July 1, 1904.

"The Act of Congress making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1905, contains the following:

"The Secretary of Agriculture is hereby directed to obtain in the open market samples of seeds of grass, clover, or alfalfa, test the same and if any such seeds are found to be adulterated or misbranded, or any seeds of Canada blue-grass (*Poa compressa*) are obtained under any other name than Canada blue-grass or *Poa compressa*, to publish the results of the tests, together with the names of the persons by whom the seeds are offered for sale."

JAMES WILSON, Secretary."

Correspondence.

INTEREST AND CO-OPERATION.

The number of suggestive and helpful letters which have come to the editor's table during the last month, make the outlook most encouraging. As stated in a former issue, we wish this paper to stand for the nursery interests of America. We wish it to become the medium for the exchange of ideas on nursery practice, on the business side of nursery life and upon those larger questions like, transportation and inter-state laws which are only to be influenced by united and co-operative effort. The paper to represent nurserymen and nursery interests at the present time should not merely chronicle events but should contain pointed discussions, and expressions of opinion, upon things pertinent to the period.

The editor has taken many of the friends of the NURSERYMAN at their word and has asked for help and suggestions. Questions propounded by our correspondents have been referred and will in the future be referred to men whose experience and ability qualify them to answer these questions. For favors that have been received, we are very thankful and for favors to be asked, we present our thanks in advance.

I think that there has been a decided improvement in your paper during the last three months. I also notice that we are getting more inquiries from our "ad" than heretofore.

Yours very truly,

Shenandoah, Ia.

E. S. WELCH.

SUGGESTIONS FOR THE IMPROVEMENT OF THE NATIONAL NURSERYMAN. SEMI-MONTHLY?

The NATIONAL NURSERYMAN has proven very profitable for associating one with the leading lights of the nursery business. We consider it a fine exponent of the Nursery interests of America.

I hardly see that I could offer any suggestions for its improvement, unless it be made a semi-monthly instead of monthly.

Yours very truly,

Sherman, Texas.

JOHN S. KERR.

GIVE MORE SPACE TO ORNAMENTALS.

One feature that I think might be enlarged upon is the ornamental department. From what I have seen of the NURSERYMAN, the paper has given more space to the fruit department, possibly because the largest number of nurserymen are heavy growers of that class, but I think that the ornamental stock is in sufficient demand, so that any note in that line will be of great interest to quite a number of your readers.

Yours truly,

The Andorra Nurseries, Philadelphia.

J. H. HUMPHREYS.

WILLING TO HELP.

We believe that many times subscribers to publications could offer suggestions that would be helpful to the editor. The NATIONAL NURSERYMAN is one of the most interesting and useful publications that comes to our office. We have received helpful information from it many times.

Any time that anything is wanted from us that can be used in the paper we shall be very glad to supply it. We are sometimes a little negligent and sometimes a little modest about volunteering criticism or information fearing that sometimes such may not be wanted, but whenever we are requested it is always a pleasure to do anything, or say anything we can.

WILLIS' NURSERIES.

MAKE IT PRACTICAL; MAKE IT EDUCATIONAL.

I am much pleased with the development in the NATIONAL NURSERYMAN since it has come under your editorial care. If you can succeed in arousing an interest in the trade so as to have the live practical questions of the day actively discussed and treated, there is no doubt but that the interest in the monthly will be much greater than if the majority of the space is taken up in perfunctory reports of the various horticultural bodies. To merit the name and to be a representative journal of the trade the policy of the paper, in my judgment, should be more educational than to act as a mere reporter.

I think that you are meeting with success in your efforts along this line upon which I congratulate you and trust that your efforts will meet with the appreciation and support of the trade throughout the country.

Yours truly,

Elizabeth, N. J.

H. T. JONES.

SUGGESTIONS AND CONTRIBUTIONS.

MAINTAIN REASONABLE PRICES AND WORK FOR UNIFORM INTER-STATE LEGISLATION

We think the nurserymen should be encouraged to maintain reasonable prices for their goods by holding up the character of the business, the fruits of which are certainly of the greatest benefit to mankind. A very small pittance it is the nurserymen gets for his efforts, and very small the recompense for the hard work he has to do in the conducting of the nursery business and the trials he has to undergo in the growing and handling of stock.

We think there should also be a very strong fight against local legislation by different states which tends to interfere with Inter-State Commerce, and especially the nursery business outside ones own state. For instance, the present Virginia laws and others that might be cited are cases in point.

Yours truly,

Bridgeport, Ind.

ALBERTSON & HOBBS.

VALUABLE SUGGESTIONS: DEPARTMENTAL BOOKKEEPING.

We had noticed that the NATIONAL NURSERYMAN had undergone a change of editors but do not think it has "suffered" a change. We think the paper is improving in every way and congratulate you on your success in making it so interesting. We do not know that we have very much to offer you in the way of suggestions. There is one thing that constitutes a very unsatisfactory feature in the grower's business and that is the difficulty, or we might say the impossibility of determining costs. This matter was discussed to a limited extent at the convention in Detroit one year ago but apparently there are few if any of the nurserymen who have attempted to keep any records of costs. We guess that most of us, if we have any money left at the end of the year, proceed to spend it and then call that year a prosperous one. If we are hard up at the end of the year we scrape along as best we can and think that "hard times have hit us again." If there is anyone among the growers who has devised a way to keep cost records and would be willing to tell other people about it through the columns of the NATIONAL NURSERYMAN we think it would be both interesting and profitable. Even if one can determine to his own satisfaction that his total business shows a profit he cannot tell, so far as we know of any way, what particular departments of his business have made the profit. We should be glad to know if there is anyone in the trade who has attempted to keep debit and credit account with the various nursery departments, so as to determine separately for example, his profit upon fruit trees, his profit (or loss) upon grape vines, his profit upon roses, etc. We have had this matter in mind for sometime but it looks like such an impossible or difficult task to keep track of properly, that we have not made any attempt at it yet.

Yours truly,

Newark, N. Y.

JACKSON & PERKINS Co.

THE NURSERYMAN'S STANDARD OF ETHICS.

The influence of the press, both religious and secular, can scarcely be over estimated and as the medium of the NURSERYMAN of America, the NATIONAL NURSERYMAN offers an opportunity of great importance. It would be difficult to name a business that has a greater influence for benefitting or injuring the property owners of the country than that of the nurseryman. Picture if you will the farmer of limited means placing an order with a nurseryman for an orchard of choice varieties of fruit. How much it involves. If it produces the fruit he ordered, it may mean a home paid for, or if it produces inferior fruit, it may mean years of penury. What an opportunity for good or evil. Dealing in an article the value of which depends so largely upon the integrity of the one who sells it, how important that the standard of righteousness should be of the highest and yet any one conversant with the business is compelled to say that to a great degree it is done in a manner that casts a reproach upon the business. It would seem to me that your paper may have a wonderful influence in raising the standard of the business through its editorial columns. The character of the paper should be one of independent thought, not only so far as it relates to members of the trade individually but to the good of the business as a whole. It should cooperate with the National and State Horticultural societies, in seeking to educate the nurserymen of America as to the propagation and dissemination of varieties of fruit best suited for the different states,

treating upon soil and climatic conditions, method of propagation, etc., for as the planters are benefited, the nurserymen are rewarded by the increased confidence of their patrons. The matter of preparing fruit for shipment, the subject of taxation and the laws pertaining to the nursery business, in short everything of an educational character will be appreciated by the trade. I question the wisdom of permitting anything of a controversial character, although it might serve a good purpose to allow the use of the columns in publishing articles prepared by experienced nurserymen that contained nothing that would be in the nature of "blowing their own horn."

Concerning the last issues of the paper I think them great improvements. The Quiz column is the right thing; report of nursery stock in different localities well prepared; editorial strong; general make up improved. Think you people are on the right track. In conclusion I would say, that I am not an editor or the son of an editor and the views that I have so freely expressed may be taken for what they are worth, which may be more and perhaps a good deal less. I wish you every success in this field of labor and if I can be of any service to you in my humble way you may feel free to call upon me.

Sincerely yours,

Kalamazoo, Mich.

CHAS. A. MAXSON.

REFLECTIONS BY THE TRADE.

TRADE SATISFACTORY IN NORTHERN OHIO.

So far, we have had fall trade enough to keep us busy, but do not think it is as heavy as last year, the buying seems to be confined to actual sales, more orders and smaller ones. It seems about uniform, so far as the demand for the different classes of stock is concerned.

Yours truly,

Painesville, Oct. 7, 1904.

THE STORRS & HARRISON CO.

THE SEASON IN KANSAS.

We have had a very unusual season here this year. The early season was very cold and very wet. Stock made a slow growth. Further along in the season we had great floods that over ran a good deal of the bottom lands and those who were growing nursery stock in such localities suffered very heavily in this vicinity. Later the wet season passed and weather became more favorable. Our spring planting as a whole is fairly good. Our last spring's planting that we should harvest now is not so good as we could wish and still there is considerable of it. A good deal of stuff we had growing on the bottoms was destroyed by high water. Some others in this community we think have lost worse than we have.

The eastern half of the state and a considerable territory in western Missouri is going to suffer pretty seriously from short crops on account of too much rain and floods in the early part of the summer so this will no doubt have a considerable effect on our trade and yet not so great but what we hope to come out pretty well in the end after all. We think the outlook for nurserymen on the whole is fairly good.

WILLIS NURSERIES, OTTAWA, KAN.

CANADIAN TRANSPORTATION MATTERS.

Canadian nurserymen and fruit shippers are to be congratulated on the results of the efforts they made towards securing reductions on freight charges. It appears that a number of leading fruit growers appealed to the Railway Commission of Canada for a hearing. This was granted. The principal witnesses for the fruit interests were W. H. Bunting of St. Catharines and E. D. Smith, M. P., nurseryman of Winona. The evidence was carefully taken and seemed to be very conclusive and convincing, because the railway companies did not wait for the decision of the commission but voluntarily made material reductions in their charges for handling fruit. This is a victory for organized effort on the part of fruit growers and will probably save the way for the securing of other needy concessions.

SUPPLY AND DEMAND.

An interesting letter from a leading nurseryman contains the following comments on the "June bud" and apple seedling situation:

"In reference to the June bud craze a mutual friend says it is only a question of a little time when that business will go to smash and someone will get hurt. Doubtless the quicker the better and after that it will be a case of the survival of the fittest. During the Elberta boom

every nurseryman sold everything in the shape of an Elberta from one inch up, besides turning down numerous orders—to say nothing of hundreds, perhaps thousands of inquiries—every nurseryman feeling that he could have sold millions more if he only had the trees. The result was that they planted peach seed in Tennessee and the middle south by the thousands of bushels. They failed to remember that buyers had made the same inquiries of many nurserymen in the land and every nurseryman went to work to provide for all the orders he had been unable to fill. The result was that there are too many June budded peach on the market and prices are far below the cost of production. In a smaller degree possibly the same condition is applicable to many other lines of stock, showing that heavy stocks nearly always insure low prices.

Very high prices and great scarcity of apple seedlings last season, owing to the flood damage, caused all the apple seed to be carefully saved and planted; result; a large supply on the market and prices too low."

[Let us have a discussion of this June bud matter. Will it not be profitable?—Ed.]

FRUIT PROSPECTS IN OREGON.

The editorial office has recently had a pleasant call from Professor Knisely of the State Agricultural College of Oregon, formerly of Cornell. Professor Knisely informs us that the crop of apples in Oregon is large. That it is also of excellent quality and that the prices quoted are in the main satisfactory. The prune crop is also heavy and is being gradually worked off.

FRUIT AND FLOWER SHOW TO BE HELD IN TORONTO NOVEMBER 15TH TO 19TH.

The province of Ontario expects to hold a great fruit, flower and honey exhibition in Toronto, beginning November 15th and continuing to November 18th. This is for the specific purpose of exploiting the fruit and flower resources of the Province. Special days will be set apart for the staple fruits and flowers, as Apple Day, Chrysanthemum Day, Carnation Day, etc.

CAUSTIC SODA NOT RECOMMENDED FOR SAN JOSE SCALE.

W. C. MacKella of St. Catharines, Ontario, reports the results of experiments carried on last year in using caustic soda on scale infected peach trees. He found that this wash had little effect on the scale. Other trees treated with lime, sulphur and salt were practically cleared of the enemy.

CROP REPORTS.

The Southern railways estimate, according to *The American Agriculturist*, the coming Florida orange crop at 175,000 boxes. Some sales are reported to have been made at \$1.60 F. O. B., but growers generally want \$1.75.

SHIPPING ORANGE TREES FROM CALIFORNIA TO PALESTINE.

The manner in which distance is now nearly annihilated by good transportation service is well illustrated by the fact that R. M. Teague of the San Dimas Nurseries of California, shipped over 40,00 orange trees to Jaffa, Palestine, in 1903, and that out of this number the receiver lost only fifteen. The trees were "stripped" before packing and thoroughly incased in practically air-tight boxes well packed with moss. The same shipper has sent large quantities of trees to South Africa in a satisfactory condition.

IN MEMORY OF VILMORIN.

The death of Louis de Vilmorin the eminent seedsman of France was universally deplored by nurserymen and horticulturists in this country. It is gratifying to learn that the National Society of Agriculture of France has recently appointed a committee for the purpose of securing and erecting a monument to his memory. The membership of this committee is not confined to French agriculturists. It includes as American representatives, Professor C. S. Sargeant, Director of the Arnold Arboretum, Boston; Dr. William McMurtrie, President of the Chemical Society of New York and D. M. Ferry, seed dealer of Detroit, Michigan. It is hoped that this worthy movement will be heartily supported by those who are interested in perpetuating the memory of a man who did much to improve and ameliorate plants.

The National Nurseryman

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VICE-PRESIDENT AND EDITOR, JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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The very suggestive letter quoted elsewhere from our good friends, Jackson & Perkins Company, of Newark, N. Y., raises a

DEPART- very important question. How many nursery-
MENTAL men are making one department carry another?
BOOK-KEEP- How many nurserymen know which is the money
ING. making end of their business? We know farm-

ers who spend much energy and time, which is money, on growing a field of oats, perhaps neglecting the spraying of their orchards, because the oat ground had to be fitted at a certain time, entirely overlooking the fact that the orchard was was the department which largely furnished the cash to pay their bills.

One nurseryman has suitable soil and the knack of growing apples cheaply, while another one has the same facility with cherries but has indifferent success with apples. Another knows how to multiply ornamentals, but has little interest and less success with fruit trees—and so on. How many nurserymen merely drift into these channels; and how many by accurate observation? All development should be based on careful book-keeping records. Is not this a field worth investigating? May we not have some suggestions from those who have evolved satisfactory departmental book-keeping methods?

The desirability of selecting appropriate as well euphonious names for new varieties of fruits receives emphasis when we **A QUESTION OF NOMEN- CLATURE.** consider the position of the Washington Navel orange in England. There is in that country an objection to the use of the word "Navel" and many purchasers who wish this particular variety of orange prefer to ask for California seedless oranges instead of using the ordinary terminology.

Not long ago the originator of a new variety of fruit, sent the editor of the NATIONAL NURSERYMAN, a sample of fruit and with it the name he proposed to give it. The name suggested, included nine words, covering more than a line of foolscap. It was not a name but a descriptive phrase and included the name of the originator. This of course has some satisfactory phases but from the standpoint of the nurseryman and the planter, it would prove a tremendous practical handicap in introducing any variety. Anyhow the public would soon abbreviate it to suit themselves.

It may not be generally known that the American Pomological Society has recently established a modified code of nomenclature which is being generally adopted by state horticultural societies throughout the country. It is much to be desired that a good understanding should be arrived at among producers of fruit and introducers of new varieties, as to the status of the question and the recent rules governing the whole subject of nomenclature.

As in clothing, boots and shoes, and other personal habiliments, fashions change, or are changed by the manufacturers **FASHIONS IN ORNA- MENTALS.** from year to year, so it is in less degree in the growing of trees and plants for ornamental and aesthetic purposes. The nurseryman in the latter instance, shapes public desire. The nurseryman, therefore, has an important influence on out-door aesthetics. Trees and plants should be considered from two standpoints; first, utility; second, beauty. In the hurry of american life, we often overlook the qualities of permanence and utility, in our haste to obtain something immediately.

In planting, whether it be trees or shrubs, should we not set those things of intrinsic value and which make for permanent utility and beauty. The nurseryman can do much in this direction. Is it wise to cater to the demand for Carolina poplars, box-elders, and soft maples, because they give quick affects? Is it desirable to spread broadcast unlimited quantities of golden glow and large flowered hydrangea, because they grow vigorously and need little care? Will not our dooryards become monotonous repetitions each autumn and will not the general expression be of the cheap and readymade order.

We are offering opinions and experiences of nurserymen on the trend of planting in these directions in the present issue, and we shall be glad to continue them in future numbers.

The present trend in nursery stock values seems to be toward the maintenance of reasonable and what might be called living **MAINTAIN** prices. This is as it should be. The nursery-
LIVING man occupies a very responsible position. The
PRICES. orchardist depends upon him for the successful realization and investment of some years of expenditure and labor. It costs money to grow good trees true to name. Low prices on nursery stock pinch the grower of trees; false economy is induced and carelessness is encouraged. This eventually discredits the nurseryman and brings financial loss to the planter. The purchaser buys on trust as it were (many of them do in fact), he accepts the grower's word, that the stock is what the labels represent it to be. Now, it is expensive to grow stock even carelessly, but it is much more expensive to grow it absolutely true to name. The mixing of varieties is the easiest thing imaginable, in the routine of nursery operations. Accuracy and skill, call for intelligent labor and intelligent labor means expensive labor; expensive at the outset but cheap in the end. The most expensive commodity on the market is a supply of brains of the right quality!

Bargain counter stuff and job lots do not pay in the nursery business. It is better to clean the ground by increasing the size of the "dump" or brush-pile, than by depressing the market by unloading large consignments of low grade stock. We are of the opinion that nurserymen realize and practice this principle more completely to-day than ever before. There is certainly more reason for their standing together. Let the motto then be, good stock and living prices.

We are frequently asked what the outlook is for fruit growing? How does it compare with stock raising, dairying or **OPENINGS** general farming? Questions of this kind
FOR FRUIT come from all parts of the country. The same
GROWERS. type of question has been asked for the past quarter or a century or more. The bugaboo of over production keeps bobbing up; yet so far as we can see production is not travelling faster than consumption. If production, however, were not accompanied by constantly improving methods of transportation, then indeed, we should be in difficulties. But our peach friend, Hale, marketed profitably 200 cars of peaches last season and that too, in the face of a large southern crop and quite a respectable eastern crop.

Our cities are increasing in population more rapidly than the

country is. The demands for fruit are growing rapidly. The uses of fruit are extending. It has passed from the stage of a luxury to that of a necessity. Cold storage places peaches grown in California on the London market. It does the same for those grown in Georgia and the Carolinas. The great areas of the Canadian Northwest are being opened up and settled. All these considerations should give the grower of fruit, confidence in the future.

It seems reasonable to believe that there are good openings for intelligent fruit growers in the east where the markets are convenient and where land at the present time is comparatively cheap. Again, the great stretches of land in the southwest await the genius and enterprise, of men like Hale, Rumph, Albaugh and Morrill. There is plenty of capital ready to develop these western regions but capital is more plentiful than the executive head. Brains and energy are at a higher premium than capital at the present time. We think the outlook bright for the progressive, industrious man.

At the meeting of the International Apple Shippers' Association, held in Rochester, three years ago, Mr. W. A. Taylor, **THE APPLE** Pomologist of the Department of Agriculture, at
CROP OF Washington, made a prophecy that the apple bin
1904 AND ITS of the United States, would in the near future,
LOCATION. be found west of the Alleghanies. This statement was a very reasonable one, when considered in connection with the vast plantings which have been made in recent years, in the Ozarks, Kansas and Missouri. However, this may be, there does seem more uncertainty and more irregularity in the bearing of fruits in that section than in the east. Last year the crop of fruit in New York, particularly in the western part of the State, was large and its barrelling quality was probably never excelled. This year it is unquestionably fully as large but it will probably not run as many barrels of number one fruit as last season. New England has a good crop; Pennsylvania reports a very fair crop and Nova Scotia is said to have the largest in years. The Lake Champlain district has a crop of excellent quality and large in quantity. Eastern Ontario and Western Quebec have more apples and of finer quality than they have had in years. The Fameuse, known in Quebec, as *LaBelle Fameuse*, bore heavily everywhere.

Contrasting these reports with those which come to us from the West, enforces the belief that the "apple bin of the United States" in 1904, is emphatically found on the eastern side of the Alleghanies. The early and copious rains which occurred during the blossoming time, seem to have injuriously effected the pollination of the fruit in the West and consequently the crop is light. The wet weather also induced a severe attack of apple scab.

As to quality, this will be up to the standard. Here and there, apple scab has made its appearance and some orchards are quite badly effected. The growers who have neglected spraying may occasionally receive a sharp reprimand. The man who sprays regularly, is insured, while the man who sprays intermittently, is as apt to miss, as he is to hit the right season. There will certainly be enough winter apples to go around, if properly distributed and after the glut of autumn fruit disappears, satisfactory prices ought to rule.

APPLE DAY AT THE WORLD'S FAIR.

The Chief of the Department of Agriculture, Frederick W. Taylor, and his Assistant in Pomology, John T. Stinson, have shown a good deal of ingenuity in advertising the various agricultural and horticultural crops of the country. Special days have been set apart for the observance of certain fruits. Strawberry day occurred in due time; peach day had its innings and apple day occurred on October 4th. On that day many car loads of apples were given away to visitors. These apples were representative varieties of the Louisiana Purchase Belt. They were varieties that were in good eating condition at that time. Jonathan, Grimes, Lowell, Maiden Blush, King, Wealthy and Fall Pippin, were on the list. Fortunately for the eating public, Ben-Davis was not in season. In fact the leading varieties of the Mississippi Valley States were not included in the distribution. They were chiefly ornamental at that time, Jonathan and Grimes excepted. This is certainly a good idea and the promoters are to be congratulated on the thought.

AMONG THE EXPERIMENT STATION WORKERS.

Two suggestive bulletins from the South Dakota Experiment Station have come to hand. These are entitled "The Western Sand Cherry" and "The Breeding of Hardy Fruits." The sand cherry is discussed from various standpoints: for instance; how it is to be improved; its use as a stock and its intrinsic values. It would appear from the nurseryman's standpoint that its greatest feature of usefulness, lies in its value as a dwarfing stock for plums and cherries for the Northwestern States. The horticulturist of the South Dakota Experiment Station is carrying on extensive experiments in determining the value of the plant as a stock and in attempting to improve it by selection. "The Breeding of Hardy Fruits," is a pictorial statement of what is being done in attempting to develop hardy fruits, in a wholesale way. Both bulletins are suggestive.

NEW ZEALAND REPORTS.

There has recently come to the editor's table a substantial volume of 500 pages being the eleventh report of the Department of Agriculture of New Zealand. This volume gives the impression of a well organized department. It is divided into various divisions; chief among these are the chemical, dairying, poultry, veterinary science, and horticulture sections and the experiment stations. The head of each presents a report of the year's work. In addition, the statistical division, the inspectors of stock and the inspectors of dairies offer separate reports for the year. The report of the division of horticulture and biology is very interesting. The horticulturist's report deals with cocoa, coffee, cotton, copra, pine-apples, arrowroot, vanilla, citrus fruits and bananas. We learn from this report that the codling moth is one of the staple enemies. We also note that the box package for shipping deciduous fruit is greatly in favor. In fact, it may be stated that New Zealand is the pioneer in the use of this kind of package. Her apples and pears have a recognized standing in the London markets. The box package is being agitated more and more in this country and its introduction will be hastened or retarded by the price of the apple barrel.

IMPORTANT POMOLOGICAL EPOCHS.

It is the custom of the world to chronicle and record striking epochs in educational, industrial and material progress. Curious it is, that many important events in the fruit world bearing impressively upon the health and comfort of mankind, have been entirely over-looked. The man who gives to the people of any country a desire to grow good fruits, does a noble thing. So also is the work of a man who produces a new and desirable fruit, worthy of all praise and faithful record. How few there are in the pages of pomological history, whose names, even after death, receive that meed of praise that their works in life deserve. In monarchical countries the man who makes a fortune whether by manufacturing soap, or cigars, and spend this liberally to advance educational enterprises, is knighted and his name goes down to posterity surrounded by a halo of philanthropic deeds. But too often forgotten, are the men like Ephraim Bull, who gave to the world a fruit which ministers to the wants of millions. As time goes on, however, there appears to be a tendency on the part of the public to recognize the efforts of these humble and less ostentatious workers.

Not long ago, there was unveiled a monument in the Sherman-Heineman Park at Mansfield, Ohio, to the memory of "Johnny Appleseed" a unique character of the last century, whose unceasing labors did much to bring comforts and happiness in the form of beautiful apples to thousands of farm homes throughout the Ohio and Mississippi valleys.

There is no specific and definite account of the life work of this man and a large part of his beneficent efforts must be left to conjecture. Certain it is that he tramped the New West almost continually, carrying appleseeds from the east to the west, gathering them from old orchards and cider presses, and scattering them in promising locations along the outposts of civilization.

There are many anecdotes, most interesting ones, told of Chapman's vagaries. He was born at Springfield, Mass., in 1775 and died in 1847, near Fort Wayne, Indiana.

So far as we know this is the third monument which has been erected to commemorate some important pomological event. The original "Baldwin" apple tree has a monument to mark its place of origination in the township of Rumford, Mass. The "Primate" has been similarly commemorated in Onondaga County, N. Y. Should not more attention be given to the sentimentalism and folk-lore of pomological history?

THOMAS MEEHAN HORTICULTURAL SOCIETY.

The Thomas Meehan Horticultural Society held its annual meeting at the nursery offices on October 12th, when the following officers were elected to serve for the ensuing year: President, Warren J. Chandler; vice-president, S. Newman Baxter; Secretary, Ernest Hemming.

After the election "Plant Breeding" was the subject under discussion for the evening. Mr. S. Mendelson Meehan, in speaking of the parentage of some common plants, took as an illustration the *Aesculus rubicunda*, the parentage of which is somewhat in doubt, and with the assistance of a chart and living specimens pointed out the probabilities of it being a cross between the European Horse Chestnut (*Aesculus hippocastanum*) and *Aesculus rubra* or *Pavia rubra*, as it is generally called.

This was followed by an interesting talk by Ernest Hemming on the parentage of the new hybrid Hibiscus. He spoke of the difficulty of getting the plants to make their first break, in comparison with the ease with which they hybridize when once this had been done.

THE SECRETARY.

THE APPLE SITUATION IN THE EAST.

A striking feature in the marketing phases of the apple business this year, is the cautionness of the buyer and conservatism of the seller. The growers appear to have decided to secure a fair price, while on the other hand the buyers, it is asserted, have reached an understanding that no high prices are to be paid. This condition has resulted in something of a deadlock between agent and orchardist in the apple growing counties of Western New York. In certain sections, apple buyers have camped in considerable numbers but have done little business for the past two or three weeks. Here and there a small orchard has been sold at a low price but up to October 20th, practically no movement had taken place in the purchasing market. The growers as well as the buyers were non-committal. Undoubtedly something will be doing before very long, because the storage facilities are quite inadequate to care for the crop which is now in evidence in Wayne, Monroe, Orleans and Niagara counties; and the dangerous frost period is not very far distant.

One of the things quite evident in going through this important orchard section, is that the man who sprays, is the man who has raised a salable crop this year. There is no disguising the fact that a good deal of apple stock is injured by scab and fungus. Single sprayings have not been satisfactory and efficient protection has only been secured where two or more applications of the fungicide have been made.

A HORTICULTURIST AT THE WORLD'S FAIR.

A very pleasant week in the fore part of October was spent by the writer at the World's Fair, St. Louis. He ventures to record for the edification of the readers of the NATIONAL NURSERYMAN some of the impressions gathered at the time of his visit.

The general question of what is worth while to the fruit men rises first. The Palace of Horticulture is the mecca to which all fruit men turn and it is natural that they should, because here is gathered a tremendous aggregation of the fruit products of the states of the Union. We have known fruit men who were content to divide their time between the halls of horticulture and the attractions on the "pike" and we must confess to a certain feeling of sympathy for those who had inclinational "pikewards."

In no exhibition in this age of expositions has horticulture had such sumptuous quarters; in no exhibition has the subject been systematized to the same extent. Pomology has been dignified by making it a division and placing a superintendent at its head. Floriculture has had the same attention given to it. When we consider that the fruit products cover a surface area of four acres, flanked on one side by a conservatory of an acre in extent, and the other side by a wing for horticultural machinery, of the same area, we gather some idea of the immensity

of the building. Six acres enclosed and devoted to horticulture!

The display of fruits on the whole is extensive but the individual exhibits are full of contrast. In one state we find a large expenditure and much stress laid upon installation; in another, the plainest kind of tables in strong contrast to the ornamental exhibits. Missouri may be taken as representing the former class, while Indiana and Iowa belong to the latter. The month of October brings the fall and winter apples of 1904 on the tables. So that the hall is resplendent with the vivid tints of the apples of Colorado, of Northern Mississippi and Northern New England. Among the particularly striking displays are those made by Missouri, New York, Colorado, California, Michigan, Iowa and Nebraska. Pennsylvania, North Carolina and Ohio, although distinctively apple growing states are not represented. These failures are in some cases due to lack of appropriation and in other cases to diversion of appropriation. Canada is the only foreign country represented in the Horticultural Building. One of the features of the latter part of September and the early part of October was the grape exhibit by New York State. It was a most creditable one considering the perishable character of the fruit and the distance it had to be transported.

Personnel of superintendents: The visitor who spends some time in the Palace of Horticulture recognizes that certain of the striking characteristics of the exhibits are but illustrations of the type of men in charge. He will not fail to notice that the success of the Missourians is largely due to the indefatigable qualities of Superintendent Goodman; that the failures of certain other states will be ascribed to lack of interest on the part of their representatives, and of course in some degree, lack of support by the growers. Nurserymen will see some of their old friends among the superintendents of the various exhibits. Silas Wilson, of Atlantic, a prominent grape grower, genial and suave, stands ready to enlighten and guide the seeker of information through the pathways of the Iowa exhibit.

Some interesting things have occurred during the summer season. For instance we have been informed that the superintendents of California and Kansas (representing both sexes) concluded to go into a life partnership and henceforth will be associated with a home exhibit on the Western coast. It is rumored that other combinations are on the tapis.

There is much of fraternal good-will shown between the superintendents of the various exhibits. They have organized and still maintain an association which has met periodically during the summer and which has been of great service in securing transportation and various other facilities within and without the building.

The Plant House: The hothouse was planned upon a magnificent scale but has unfortunately not been patronized to that extent its facilities deserve. Dreer of Philadelphia has a large and creditable collection of plants. Louisiana as a state, has put in a good collection. Aside from these the showing is mediocre. Again, in the machinery end of the building, the visitor is impressed by the apparent lack of enterprise on the part of firms, who supply

and manufacture horticultural machinery. The Goulds Manufacturing Company of New York has a good display of pumps and spraying appliances, as has also the Niagara Gas Spraying Company of Middleport. Part of the space in this wing has been occupied by the New York gladiolus grower, Harry Cowe of Berlin.

Landscaping: The striking feature of the landscape immediately surrounding the horticultural and agricultural building, during the forepart of October was the canna. It was in its glory up to the 15th of October and will probably continue blooming until the end, if not shut off by the frost. Next to the canna, we could not help but admiring the cosmos. In the East our summer is hardly long enough to bring the cosmos to perfection but in southern Missouri, it is perfectly at home and is a charming banking plant for side walls, or for screening foundations.

The water garden which was largely stocked by Dreer of Philadelphia is also a feature well worth studying. The bedding plants about the Agricultural Building are in a fine condition and show the handiwork of the Superintendent and the generosity of the various florists who have supplied the material. The nursery plantings are not inconsiderable but hardly impressive. Still they are worth studying.

Another type of nursery: Far away from the hall of agriculture and horticulture, there is another nursery, which the grower of trees will want to visit. This is a nursery where the tenderest kind of creations are cultured. We refer to the Baby Incubator, situated on the "pike," where tiny specimens of humanity, who have for various reasons found a premature existence on the earth, are cared for in dainty little glass houses, supplied with filtered air, and regulated temperatures and are fed homeopathic doses of prepared food. This nursery exhibit is one which is well worth visiting.

The nurseryman who visits the fair need not hope to do very much serious work or learn a great deal about varieties of fruits unless he sits down and makes a systematic study of two or three of the leading exhibits in the horticultural hall. A glance here and there will enable him to get a general impression but will hardly supply him with definite information. Whether one should visit a small section thoroughly or get a bird's-eye view of the whole, is a question that each one must settle for himself. The atmosphere of the exhibition is not favorable for serious study and most people are satisfied with a bird's-eye view.

HORTICULTURAL VISITOR.

WINNERS AT SYRACUSE.

ELLWANGER AND BARRY NURSERIES TAKE NO LESS THAN ONE HUNDRED AND TWO FIRST PRIZES.

The fame of the Ellwanger & Barry nurseries of this city and vicinity cannot but be heightened by the fact that their fruit products captured no less than 102 first prizes at the state fair in Syracuse. The Ellwanger & Barry exhibit was pronounced by the judges and visiting experts to be the most perfect ever placed on exhibition, showing that trees propagated in the soil of Monroe county are capable of producing finer and better fruit than those grown elsewhere. The Western New York Horticultural Society of which William C. Barry is

president, won the first prize, \$300, for the best display.—*From Rochester Union and Advertiser*, September 9th, 1904.

PERSONALS AND GENERAL.

The Division of Entomology of the North Carolina Department of Agriculture has issued a circular on the San Jose scale, which may be had by addressing this division at Raleigh, N. C.

Stark Bros., of Louisiana, Mo., were instrumental in securing from growers in Washington and Colorado an attractive display of Black Ben Davis apples which were on exhibition at the World's Fair, St. Louis, during the month of October and will be continued till the close of the Fair.

NOVELTIES FOR NOVEMBER.

Benjamin Chase, Derry N. H., makes nurserymen's labels.

The Ellisville Nursery, Ellisville, Mo., wholesale apple trees.

Maher & Grosh, Toledo, Ohio, offer a popular article in their grafting knife No. 2.

South Floral Nursery Co., Fruitville, Ala., specialize in Stokesia, Cyanea and Liatris Gracilis.

For apples and a general nursery stock buyers should consult Stephen Hoyt's Sons catalogue, New Canaan, Conn.

A fine line of Autumn Japanese specialties is offered by importers, Suzuki & Iida of New York and Yokohama.

Brown Brothers Company of Rochester have propagated a large supply of Baby Rambler Rose, anticipating a brisk demand next spring.

Ellwanger & Barry, Rochester, N. Y., are pushing that finest of all ornamental willows—the laurel leaved. Pin Oak and Oriental Palm are also among their specialties.

McHutchison & Co., 218 Fulton Street, New York, are American agents for three leading nursery houses in France and Holland. They offer a special line of Norway Maples this month.

J. G. Harrison & Sons, Berlin, Md., offer the buyer a selection of no less than one hundred and sixty-five kinds of apple trees. They also offer a large stock of Keiffer pears grafted on French stocks.

COMING HORTICULTURAL MEETINGS.

NOVEMBER AND DECEMBER.

Chrysanthemum Society, Boston, November 3.

Apple Growers, St. Louis, November 9, 11.

Pennsylvania Society, Philadelphia, November 8, 12.

Ontario Fruit Growers, Toronto, November 8, 12.

Massachusetts, Boston, November, 19.

Michigan, Benton Harbor, December 6, 8.

Minnesota, Minneapolis, December 6, 9.

Iowa, Des Moines, December 6, 9.

Indiana, Indianapolis, December 7, 8.

Connecticut, Hartford, December 14.

Illinois, Bloomington, December 14, 16.

Missouri Valley, Kansas City, Mo., December 17.

Ohio Horticultural, Chillicothe, December 20, 22.

Western Nurserymen, Kansas City, Mo., December 22, 23.

Kansas, Topeka, December, 27, 29.

Maryland, College Park, December 28, 29.

The National Nurseryman Publishing Co.,

GENTLEMEN:—Enclosed find one dollar to pay for my subscription to your valuable paper. I like the NURSERYMAN, and desire to keep it on my list of first-class papers. Wishing you success,

Yours truly, H. W. HENRY, LaPorte, Ind.

Enclosed find my check for one dollar for your paper for another year. It is all we can expect. I have just returned from Europe and found our Boskoop Nursery in fine shape. The stock is well grown and plentiful on account of the splendid weather we had during the summer.

Will you kindly notice the change of my address to 216 Jane Street, Hoboken, (Weehawken Heights), N. J.

Yours respectfully, A. P. OUWERKERK.

LAWS OF NEW YORK RELATING TO THE INSPECTION AND FUMIGA- TION OF NURSERY STOCK IN NEW YORK

The Commissioner of Agriculture for New York has issued a circular under date of August first, interpreting the Statute of the State in regard to inspection, fumigation and certification of nursery stock. The gist of the Law is as follows:

Nursery inspection will be done substantially as heretofore. All trees infested with San José scale or other dangerously injurious insects, and all trees affected with fungous disease, crown-gall, or galls on the roots, must be destroyed. The difficulty of detecting the presence of galls or other disease of the roots at the time of the summer inspection emphasizes the importance that great caution should be used at the time of digging to reject all trees so effected.

Nursery stock shipped from other States into this State must be fumigated with hydrocyanic acid gas before planting, sale or distribution; and all stock dug for sale growing within a half mile of a section infested with San José scale must be fumigated before delivery or shipment. Proper fumigation may kill all scales but will not remove scale marks, therefore I suggest that no scale-marked trees should be shipped. The Commissioner of Agriculture may exempt from fumigation herbaceous plants, coniferous trees, bulbs and tubers. Florist's greenhouse plants, flowers and cuttings are also exempted from fumigation, but this does not mean rose bushes or other stock that may disseminate the San José scale.

All nursery stock for shipment must be accompanied by a copy of a certificate of inspection signed by the Commissioner of Agriculture, dated not earlier than September 1, 1904, which certificate will be valid until September 1, 1905.

In order to conform to the requirements of other States each package that shall have been fumigated in a proper manner with hydrocyanic acid gas should bear the nurserymen's certificate to that effect.

Duplicate certificates of inspection will be furnished by the Department for filing in the offices of the States requiring them as follows: Alabama, Georgia, Maryland, Michigan, North Carolina, South Carolina and Virginia.

Four hundred and sixty-six certificates were issued to the nurserymen and vineyardists of the State of New York for the year beginning September 1, 1903. Printed lists of nurserymen and vineyardists will be furnished on application to this Department. The following is a brief statement of the requirements of the several States and Canada relative to inspection, certification and transportation of nursery stock. Further information may be obtained of those whose addresses are given below.

In addition to the above, the circular gives the names of the inspectors for each state where inspection laws are in force, together with a brief statement of the legal requirements. The circular can no doubt be obtained by applying to the Commissioner of Agriculture, Albany, N. Y.

The State Horticultural Society of Georgia met recently in annual convention at Tallulah Falls in the mountains of north east Georgia. The meeting was a very pleasant and profitable one for the members present. The exhibits of fruit were very fine and elicited much favorable comment on Georgias resources in the fruit line. The exhibits were packed up and forwarded to St. Louis to go on exhibition there at the Worlds Fair. As is customary in this state, after adjournment the Tallulah Falls Railway placed a train at the disposal of the horticulturists and they were carried on a very enjoyable excursion up the Tallulah River into the heart of the Appalachian Mountains.

President P. J. Berckmans was re-elected to the presidency. Chas. T. Smith of Concord, Ga., was elected secretary and L. A. Berckmans,

treasurer. These officers are from the ranks of our largest nurserymen while a number of our most influential members are almost engaged in the nursery business.

Secretary Goodman of Missouri Horticultural Society says: From three hundred postal cards received we know that our last report of one-third of an apple crop must be reduced to one-fifth, at least, for the state. There are places and parts of orchards where there will be a good half crop, or even a full crop, but they are few and therefore we must count on only the crop as a whole and that will be less than twenty per cent. I feel sure that the crop of the country will be less than last year, taking the country as a whole, although the report has gone out that it will be twenty per cent larger.

The prospect, therefore, should be for good fair prices but not extreme prices.

C. W. Ward, of the Cottage Gardens Company, Queens, Long Island, recently returned from an extensive tour from Europe. Mr. Ward was instrumental in securing for the Co-operative Peony Contest, now in progress at Cornell University, a fine collection of roots from DeGraff Bros. of Leiden, Holland.

The Sun, like some people, squanders much energy which if economically applied, would do a world of good. The vastness of this dissipated effort is entertainingly set forth by President Pritchett of the Massachusetts Institute of Technology in an article on "Tools of the Future", contributed to The Youth's Companion for October 13th.

WANTED A purchaser for $\frac{1}{2}$ inch to 5-8 grade and 5-8 to $\frac{3}{4}$ grade of *Standard Pears*, also $\frac{1}{2}$ inch to 5-8 grade *Sour Cherries*. I also have in surplus some nice two year old, 3 to 5 feet *Cutleaf Birch*. If you can use any of the above stock, write me, and I will quote you prices that will secure your order. Address

D. H. PATTY,
Geneva, N. Y.

STANDARDS STANDARDS

Of

Currants and Gooseberries

Straight Stems 3-4 ft. high, grafted on Ribes.
Strong Heads. Best Varieties.

Also

Roses, Standards correct trimmed Fruit Trees, Etc.

Please write and get my prices before ordering elsewhere.

B. Muellerklein's Nurseries

Karlstadt (near Frankfort Main, Germany)

JAPANESE SPECIALTIES

ORDER NOW
FOR
SPRING DELIVERY

Direct from our own Nurseries in Yokohama and
Tokio, Japan.

NURSERY STOCK,
ORNAMENTAL TREES AND
SHRUBS,
TREE AND HERBACEOUS
PAEONIES,
IRIS KÆMPFERII, the Latest
Varieties,
LILIES, ETC.

Write for Our Trade List.
SPECIAL PRICES FOR LARGE QUANTITIES
and Hand Colored Plates for Inspection
on Demand.

Suzuki & Iida

31 Barclay Street, NEW YORK
21-35 Nakamuramachi, YOKOHAMA

CURRENT PLANTS

AND

GRAPE VINES

Highest Standard of Grades. Largest Stock and
Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK
FREDONIA, N. Y.

Pears! Pears! Pears! BARTLETT PEARS. One
two and three year old, as
fine as can be grown. Will
exchange for Peaches, or sell at a very low figure. Write for
prices in car or part car lots.

DAVIS COUNTY NURSERIES,
Harness, Dix & Co., Prop. 35-36 Hooper Bldg, Salt Lake City, Utah.

VICTOR DÉTRICHÉ, ANGERS, FRANCE

Wholesale Grower and Exporter of

*Fruit Stocks, Forest and Ornamental
Trees, Shrubs and Conifers, Etc.*

Advance List for Fruit Stock now ready. Liberal percentage of
Mahalab and Mazzard Cherries allowed.

CHAS. F. MEYER, Sole Agent for the United States
and Canada.

99 WARREN STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

ROSES FOR LINING OUT

We are the Largest Growers
of ROSES in the World,

and sell annually to Nurserymen several mil-
lion Roses for lining out in nursery rows. If
you are in the market for such stock, you
had better try us. Send us a list of the
varieties and number of each you will
desire and we will be glad to send you
prices for next spring delivery. . . .

Our Wholesale Catalogue

will be mailed you on application. This
will give you a list of the varieties we
have to offer.

Our Roses Will Grow For You.

THE GOOD & REESE CO.

SPRINGFIELD, OHIO,

The Largest Rose Growers in the World.

New Haven Nurseries

J. BAGBY & SONS CO.

NEW HAVEN, MO.

OFFER TO THE TRADE

50,000 3 Year Apple, very fine 3-4 and up, mostly
Ben Davis and Baldwin.

250,000 2 Year Apple, mostly in grades under 3-4.

500,000 Peach, 1 Year from bud, extra quality. Over
200,000 Elberta. All exceptionally well rooted.
Varieties true.

20,000 Cherry, 2 Year, unexcelled in quality. Mostly
Richmond, Wragg and Baldwin.

42,000 1 Year from bud Japan Plum on Plum.

60,000 1 Year Cherry, full assortment of varieties.

Write us for prices on your wants.

All our Stock is grown at New Haven, Mo., 67 miles
West of St. Louis.

St. Louis Freight Rates will Apply.

When writing to Advertisers mention The National Nurseryman.

Oregon Nursery Co. Ltd.

WE MAKE A SPECIALTY OF GROWING

RAMBLER AND OTHER CLIMBING ROSES

ON OWN ROOTS.

Cut Leaved Weeping Birch and Carolina Poplar

FOR THE WHOLESALE TRADE.

Cut Leaved Birch, 2 years, 6 to 8 feet, as straight as an arrow, nicely branched, their equal cannot be grown any place else in the United States.

Our soil and climate is the finest in the world for producing these special kinds.

Contracts made now for Rambler Roses, Carolina Poplars for delivery Fall 1905 and Spring of 1906. Cut Leaved Weeping Birch, delivery Fall 1906 and Spring 1907.

Special inducements to parties contracting in car-load lots.

OREGON NURSERY CO., Ltd.,
SALEM, OREGON.

The way to go to the
WORLD'S FAIR is via

Wabash R. R.

The only line landing passengers
at the main gate of the

LOUISIANA PURCHASE EXPOSITION St. Louis, Mo.

TRAINS LEAVE BUFFALO DAILY

2:00 a. m., 8:15 a. m., 1:30 p. m., 8:30 p. m.

ARRIVES WORLD'S FAIR STATION

7:01 p. m., 7:19 a. m., 7:50 a. m., 1:31 p. m.

ARRIVING UNION STATION

7:15 p. m., 7:33 a. m., 8:04 a. m., 2:00 p. m.

Season Tickets, \$28.40

60 Day Tickets, \$23.70

15 Day Tickets, \$19.75

Coach Tickets good one week (sold Tuesdays and
Thursdays) \$14.00

Pullman's Newest Type of Sleepers. Electric Lighted Chair
Cars (Seats Free.) Wabash Dining Cars.

Ticket Office, 287 Main Street
ELLICOTT SQUARE.

G. S. CRANE,
Gen'l Pass. and Ticket Agt.
ST. LOUIS, MO.

R. F. KELLY,
Gen'l Agt. Pass. Dept.,
BUFFALO, N. Y.

JAMES GASS, N. Y. S. P. A.

When writing to Advertisers mention the National Nurseryman.

Nurseries For Sale

Have made 7 to 10 per cent. for years.

Have ONE OF THE LARGEST FORCES
OF SALESMEN.

Fall sales about \$30,000.

Spring sales about \$45,000.

Have a large stock and splendid blocks
of young growing Fruit Trees, Plants, and
a very complete line of ornamentals.

Old established stock has excellent repu-
tation.

Have splendid up-to-date management in
office and field.

Have best of facilities, including Trunk
Line, Rail Roads, Electric Line, etc.

Owing to the enforced retirement of two
of the Company they desire to sell.

Cash or a good note will be accepted.

7 to 10 per cent. on your investment,
besides **\$10,000 to \$25,000 made**
by purchaser.

Apply to "MUTUAL"

care of *National Nurseryman*

THE

Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS—Ponticum, Catawbiense, Named
Hybrids.

PAEONIAS Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

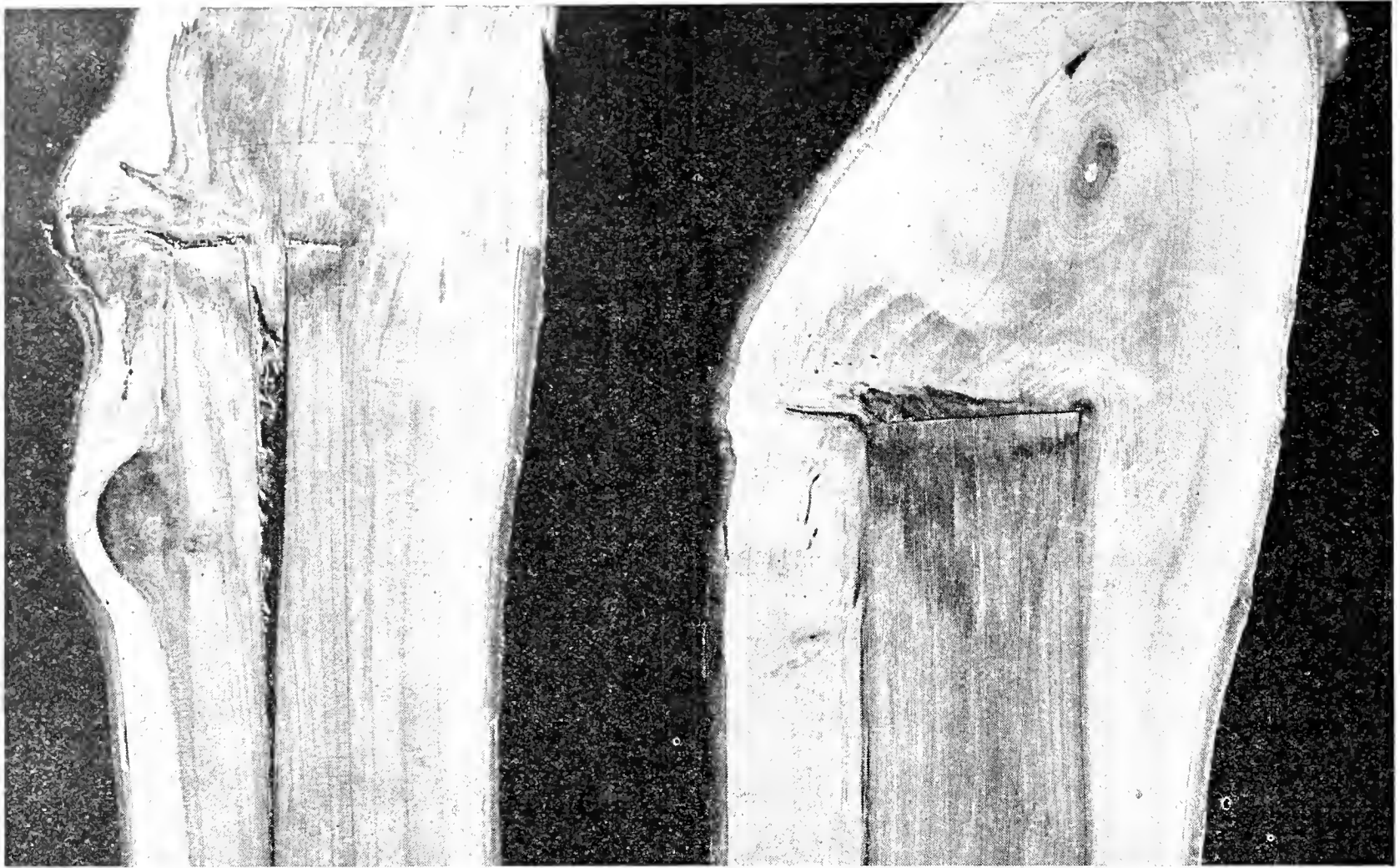
Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.

Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to Advertisers mention The National Nurseryman.



Sections of Apple Grafts. The first one transverse, the second longitudinal.



Plum Grafts, showing continuous layers of new wood. The old wood of the original stock and scion partly eaten out by ants in the specimen on the right. Courtesy Hatch Experiment Station of the Massachusetts Agricultural College. Technical Bulletin No. 2. Author, F. A. Waugh.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XII.

ROCHESTER, N. Y., DECEMBER, 1904.

No. 12.

DEVELOPMENT OF THE NURSERY BUSINESS IN IOWA.

WESLEY J. GREEN,

Secretary Iowa State Horticultural Society.

Who planted the first orchard in Iowa is not definitely known. The first authentic record of a settlement within the borders of the State was made by Julien Dubuque, who in 1788 had gained the confidence of the Indians and established a mining camp and trading post, at, or near the mouth of Catfish Creek, where he remained until his death, which occurred in 1810. It is not definitely known that fruit trees were planted by Mr. Dubuque, or his associates, during the twenty-two years he resided in that vicinity, though it has been affirmed that old fruit trees were found in bearing at a deserted Indian village in that locality when occupied by the settlers in 1833. J. L. and L. H. Langworthy planted orchards there soon after the land was opened for settlement. We have, however no record showing that there was a nursery in Dubuque, before 1850, though it is possible that trees were grown and distributed there long before that date.

In 1799 Louis Lesson established a trading post at Montrose, in Lee County and planted near his cabin, a small orchard of about 100 trees that he brought from St. Charles, Missouri. This is the first authentic record of fruit culture in Iowa.

The next orchard was planted by Antoine Le Claire at Davenport, in Scott County, 1833. Mr. Le Claire had lived in that vicinity since 1818, in the employ of Col. Davenport as an interpreter of the Indian languages, in which he was an expert. This orchard contained about 400 trees which were brought by boat from Cincinnati, Ohio. There was no commercial nursery at Davenport until 1841, when H. D. Findley planted about five acres which he afterward extended to 160 acres before the business was discontinued.

In 1837 Henderson Lewelling started a nursery near Salem, in Henry County, which was continued by his brother John until 1850, when he closed out the stock and went to Oregon to join his brother, Henderson, who had gone there in 1848 to engage in the nursery business.

In 1841, Reuben Brackett brought apple seed from Cincinnati, Ohio, and started a nursery at Denmark, in Lee County. It was in the management of this nursery that his son, G. B. Brackett, acquired a knowledge of fruits and methods of cultivation that soon brought him prominently before the public as an expert in pomology. In this capacity he has rendered valuable service to the country at the international exhibitions and as United States pomologist.

In 1836 or '37, Robert Avery and his son, Henry, planted an orchard and nursery at Burlington, in Des Moines County, and continued in business there for a number of years.

From 1836 to 1850 many of the settlers brought seeds and nursery stock with them to plant about their new homes in

what was then considered the "far West." In this manner a great many varieties were planted.

Mr. Weed's nursery in Muscatine at an early period contained 300 varieties of apples, 150 of pears, 90 of peaches and nectarines, 70 of plums and 50 of cherries; but many of these were not hardy enough to withstand the test of hard winters and soon died. The winters which proved most destructive to trees in orchard and nursery in Iowa were 1842-3, 1848-9, 1855-6, 1863-4, 1872-3, 1884-5, and 1899.

The first trees planted in orchard by my father, in Scott County, were budded about two feet above the ground. Many of the orchards planted before that contained a large number of seedlings; since that time it has been the practice among nurserymen to use a long scion in root-grafting the apple so as to eliminate as much of the tender stock as possible in order to secure a thrifty tree on its own roots. The methods of culture followed are those which tend to produce a strong, continuous growth in the young trees in summer and to ripen the wood before the weather is cold enough to injure it. Improved implements for cultivating and digging the trees have reduced the cost of production; and storage cellars and have lengthened the time for distribution and prevent loss from unfavorable weather conditions after the trees have been grown.

Nursery stock is so easily and quickly distributed throughout the country that the nurserymen is no longer dependent on the territory adjacent for his support. Rapid transportation has been an important factor in the development of the modern commercial nursery. When the first nursery was planted in Iowa, it required more than six weeks to get an answer from a letter to New York, now it can be had in as many days.

Some data have been collected of the nursery business in this State but they are not sufficient to show, by comparison, the progress of the business from year to year since 1840 to date, but it has kept pace with the increase in population and the orchard industries. There are now more than a hundred nurseries doing business in the State with capital involved exceeding several million dollars.

[Among the nurserymen of comparatively of recent years who were closely identified with the progress of fruit growing in the state were R. P. Speer, Cedar Falls and Bardwell & Haviland, Ft. Dodge. The nurserymen of to-day are well known and among the most progressive in the country.—Ed.]

The apple situation has cleared up very considerably during the past month. The cold weather has been a prime factor in clearing the atmosphere. Belated apple pickers lost heavily. It is altogether too bad to see thousands of bushels of apples on the ground as one drives through certain parts of the country. The greatest losses have occurred in regions where the small orchards exist. Here the apple crop is of secondary importance and was left to the last minute. Jack Frost arrived before the "last minute" and the apples came down in showers. Some of them were afterwards sold as dry house stock at a low price or went into vinegar.

SATSUMA PLUM.

The more we see of this variety, the more we are inclined to think that its full value is not recognized and appreciated. Among all the Japanese plums that we have tested, the form of this tree, its hardiness and bearing habit, impress us most favorably. It is not high in quality, it is not a plum to be eaten out of the hand; but what Japanese plum is high in quality? Under our observation, it has borne very regularly, it has shown less tendency to rot than Burbank and Abundance and it is in our estimation, greatly superior to these to varieties, as a canning plum. If a plum is a good canner, it is saying a good deal for it because after all, here lies the chiefest value of the plum. We think that Satsuma has been underrated. What think you?

APPLE APHIS ON NURSERY STOCK.

The nurseryman of the East at any rate, will remember the serious infestation of Apple Aphis which occurred in 1903. It caused a great deal of damage, not only on nursery stock but in orchards, particularly on the young plantings. Some complaint has been made this fall and a New York canvass of the subject has been conducted by Professor Slingerland of the Entomological department of Cornell university. In answer to a letter addressed to some of the leading nurserymen in Central and Western New York, the following replies are offered:

ONTARIO COUNTY—1. "The condition in our nursery as regards Aphis is much the same as two years ago. We are sending to you under separate cover some badly infested branches we have cut from the apple seedlings we have budded this summer. These to-day are in somewhat worse condition than the same kind of seedlings were at this time two years ago. The attack began a little earlier in the season, still not until some time after the seedlings were budded. This may or may not indicate a serious attack next year.

"It occurred to us that perhaps an application of lime, sulphur and salt in early spring over these seedling tops, even though the tops will all be cut and carted away, would be beneficial and perhaps prevent a serious attack of Aphis."

ONTARIO COUNTY—2. "Up to the middle of August we were troubled with little or no Aphis. At that time it appeared on some of our seedlings and it did a little damage. We did nothing towards checking it this year. We certainly hope that there will be no such repetition as we received in 1903. At that time we tried everything but with little or no success."

NIAGARA COUNTY—"The pest did not appear in serious numbers at any time in this vicinity, though I heard of their being quite bad in one or two places a few miles from here. They were even less plentiful late in the season."

MONROE COUNTY—"We have not been troubled with the Aphis this year, nor do we find any indication of eggs on nursery stock now."

WAYNE COUNTY—"The Aphis were very little trouble to us this last year. We had one block of seedlings apples that were carried over (not budded) from last year, which were pinched twice and dipped once and these are all that the lice were fought by us this last year. We had almost no lice at all in our buds, and we account for the lice on the seedlings that were carried over, by the fact that we did not fight them as strongly there the year before, as we did in other parts of our nursery. "We used whale oil soap, purchasing the brand called "Goods Whale Oil Soap," and we mixed a little crude carbolic acid with it. We can give you the exact formula if you want it. "We do not find any eggs on the branches in our nursery."

THE CODLING MOTH PARASITE.

A despatch from San Francisco under date of November 11th, announces the arrival of the widely advertised parasite of the codling moth. This was brought from the coast of Spain by George Compere, the agent for the State Commissioner of Horticulture of California. It appears that there are two parasites. One belongs to the large group of Ichneumon flies and the other is a Chalcid fly. The Ichneumon parasite lays its eggs on the larva, while the Chalcid lays its eggs in the pupae of the codling moth.

The work of breeding these insects will be commenced in earnest by the California Commissioner and as soon as a sufficient stock has been propagated they will be distributed after proper precautions have been taken to guard against injury, or destruction when they are liberated. It is stated by Mr. Compere that in the districts of Spain, where this parasite is found, the codling moth is so scarce that its presence is hardly realized and apple trees hang full of beautiful apples without injury from the "worm."

It would appear that this is a very valuable piece of work providing the foreigner finds the new land a congenial home in which to grow. May it flourish as has San Jose scale under American skies!

EUROPEAN MARKET CONDITIONS.

The English apple markets were in bad shape during the month of October. They were over supplied with fruit and the price remained low. When fruit sells in London at a penny a pound, the supply must indeed be large. The reason for this is that the home crop is unusually heavy. About the middle of October some 12,000 barrels of apples were offered in the Liverpool market. This caused such a slump in price that the fruit could not be moved at all. Baldwins were sold in the latter part of the month from 7 to 9 shillings, while greenings ran as low as 6 shillings. Only the finest and highest colored fruit, naturally Kings and Gravensteins from Nova Scotia, realized paying prices. November saw a clearing off of local fruit and slowly improving prices. The path of the apple dealer has not been strewn with roses in this year of our Lord nineteen hundred and four, nor do the husky producers find large reason for rejoicing.

[NOTES AND COMMENT.

Weber & Sons, Nursery P. O., Mo., were successful in winning a first premium on their exhibit at the World's Fair.

Charlton Nursery Company of Rochester were awarded a gold medal for the largest and best collection of peonies at the World's Fair.

Hops have been one of the great money-making crops of the farmer in 1904. The price has recently reached the high figure of forty-two cents a pound. A good ten acre hop field was equal to a small mine on a farm this year.

The importations of bananas into England and the British Isles is steadily increasing. The banana is becoming more and more recognized as an article of food and apple growers of the North will be obliged to reckon with this fruit as an active competitor in the British markets in the future.

D. L. Pierson of the Summit Nursery, Monticello, La., has sold his interest and good-will in his nursery to H. K. Miller and H. A. Gossard, formerly of Lake City, Florida. The firm will be continued under the same name and the present owners intend enlarging and developing it along ornamental lines, very extensively.

The business office of the NURSERYMAN had a call from Charles H. Vick, who has been subintendent in charge of the New York State fruit exhibit at St. Louis. It is now generally recognized that the fruit exhibit of New York State was one of the best at the fair. The collection of grapes in charge of Mr. Vick and Mr. Loomis, was ahead of anything on exhibition and gave New York a big boost as a grape growing State. Mr. Vick has worked energetically and perseveringly and has succeeded in maintaining a most creditable display throughout the summer. He has been ably assisted by Mr. Patterson who has had considerable experience in exhibition work.

Obituary.

Elisha Nye Pierce, the "Eastern Lily King" died on October 30th at his home in Waltham, Massachusetts. Mr. Pierce was the head of the well known firm of florists, E. N. Pierce & Sons, extensive growers of lilies and chrysanthemums. He was 65 years of age.

The friends of the venerable Dr. Herman Schroeder of Bloomington, Illinois, will regret to learn of the death of his wife, who has been, as Dr. Schroeder puts it, his "love companion" for fifty-six, long, happy years. Dr. Schroeder is now in his eighty-fifth year but still takes an active interest in fruit growing, in which he is assisted by his son.

MR. JOHN JEFFERIES.

The Garden (English) for July 23, records the death of Mr. John Jefferies. This gentleman was the senior member of the firm of Jefferies & Son, nurserymen who hold an enviable reputation for the growth of forest and ornamental trees and Cotswold roses.

A correspondent who knew Mr. Jefferies, says that few men knew hardy plants and trees better than Mr. Jefferies, especially was this the case with hardy flowers.

WILLIAM D. BARNES.

The death of W. D. Barnes of Middle Hope, N. Y., on October 18th, at the age of 76 years, removed from the Hudson River Valley, a noted figure in the horticultural history and progress of that section. For many years, Mr. Barnes has been regarded as an authority on subjects pertaining to intensive fruit growing. On his hundred acre farm at Middle Hope, not far from Newburgh, he, with his son, has made a shining success of fruit growing practically and financially. Nowhere in the country was a better example of intensive up-to-date methods to be found than on the Barnes homestead. The writer had an opportunity to examine this place carefully last summer, under the guidance of the subject of this sketch, and was greatly struck by the evidence of skill, perseverance and intelligent labor apparent on every hand.

A year ago, Mr. Barnes while at Ithaca, attending a religious conference, gave the students in horticulture at Cornell University an impromptu address on his experience as a fruit grower, which proved one of the most interesting and valuable lectures given on this subject at the university in many years. Mr. Barnes' good judgment coupled with his earnestness and sound enthusiasm, made him a safe guide and counsellor of young men.

During his life he held many important public positions. For a number of years he was a member of the Board of Controllers of the New York Experiment Station and frequently he represented New York in the council of the National Farmers' Congress.

It is pleasing to know that his place is being filled by a worthy son and that a grandson is growing up, whose interest in fruit growing, farming and home-making in the picturesque Hudson region is as keen as that of his father and grandfather.

J. C.

WILSON J. PETERS.

Wilson J. Peters of the firm of George Peters & Company, died of typhoid fever at his home in Troy, Ohio, on November 1st, 1904. The death of Mr. Peters will be keenly felt by his large circle of friends and acquaintances not only in his own immediate neighborhood but in the larger circle of the American Nurserymen's Association. He was born August 3d, 1849. He was the son of George and Hannah Smith Peters. His boyhood home was in Adams County, Pennsylvania, near Gettysburgh.

"The Buckeye," of Troy, says: "In 1869 Mr. Peters moved with his parents from Pennsylvania to Ohio, and his father and he

established a nursery near New Carlisle, the father owning and managing the business, the son assisting him. In 1876 the Peters family moved to Troy and established a nursery near this city. Here the father and son were partners until 1883, when the father dying, the elder son in accordance with his father's wishes continued the management of the nursery under the name of George Peters & Company for eight years. At the expiration of that time, he and his brother, Norris B. Peters, formed a partnership but kept the old firm name, the elder brother continuing to be the manager of the business."

While Mr. Peters was an exceedingly busy man, carrying large business responsibility, yet he was a regular church goer and supporter and an active teacher in the Sunday School. As a citizen, he took an energetic part in the welfare of his immediate neighborhood and an intelligent interest in affairs at large. It is conceded by local authorities, that Mr. Peters did more for the town of Troy than any other man of his generation. As a business man, he was straight-forward and reliable and as an employer he was highly respected by those in his service. Mr. Peters was married in 1872 to Miss Jenny Foresman of Yellow Springs, Ohio. One son, Charles Norris, survives him. His brother continues the business.

Mr. Peters was a prominent member of the Masonic Order and the beautiful services of the Scottish Rite Order were rendered at the interment.

The absence of Mr. Peters at the forthcoming meeting of the Association of American Nurserymen will cause a note of sadness among the friends who had expected to grasp his vigorous hand and meet his kind presence. The American Association of Nurserymen was represented at the funeral by a large delegation, among whom were noticed Messrs. Thos. B. Meehan of Philadelphia, Pa.; J. H. Skinner, Topeka, Kan.; E. Albertson, Bridgeport, Ind.; Fred D. Green, Perry, Ohio; J. H. Dayton, Painesville, Ohio; J. W. Gaines, Xenia, Ohio; N. H. Albaugh, Phoneton, Ohio; S. R. Ferguson of Tippecanoe City, Ohio; Frank Freeman, Rex, Ohio; F. A. Fissell and W. N. Searff, New Carlisle, Ohio; Peter Bohlander, Tadmor, Ohio; T. J. Dinsmon, Tippecanoe City, Ohio; J. W. McNary, Dayton, Ohio.

WORDS OF APPRECIATION.

The death of Mr. Peters removes from the trade the strongest personality in the business. He was recognized as one of the most energetic and forceful of men, masterful and strong, rigid in his requirements, but withal a

man of large heart, kind and generous. He was universally loved and respected in the community in which he lived, by the rich and poor alike, and with one accord they paid last respects by mournfully attending his funeral.

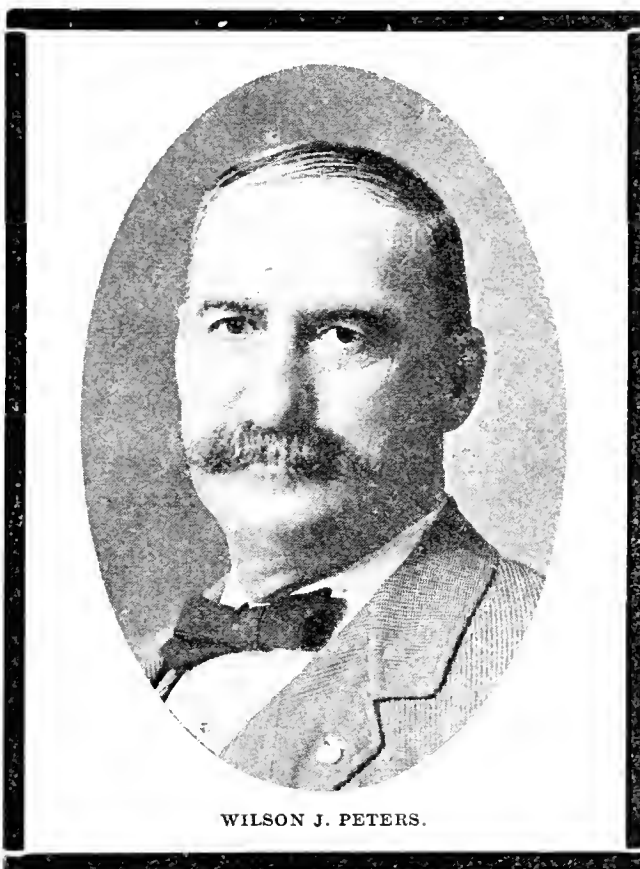
Xenia, O.

J. W. McNary.

"In the death of Wilson J. Peters we feel that we have lost one of the truest and best members in the nursery fraternity, and we personally feel that we have lost one of our best friends and associates in the business. We have been intimately acquainted with him in business for the past twenty years, and have always found him loyal and true. It was with sad heart that the writer left home to pay his last tribute of respect and love for his departed friend, and we feel that in his death nurserymen generally have sustained a loss that will be felt for many years. Our hearts go out in sympathy to his family; and to the reorganized firm we trust that the future will continue the well earned successes of so worthy a founder.

Bridgeport, Ind. ALBERTSON & HOBBS.

By the death of Wilson J. Peters the nurserymen have lost a noble man and a very dear friend. We met some fifteen to twenty years ago, when I first began attending the Nurserymen's Convention, and the acquaintance began at that time became more intimate as each year rolled by. He was a man who attracted people by his genial nature, his honesty and sterling business qualities. In business mat-



WILSON J. PETERS.

ters it was not necessary to have his name to a contract; his word was as good as his bond. Of the truth of this I have had abundant verification

His hearty greeting and warm handshake will long be missed by those who have had the privilege of his friendship.

As a nurseryman, I considered him one of the foremost in the business, and few men to-day have the intimate knowledge of the sources of supply of nursery stock in the country that he possessed.

Dreshertown, Pa.

THOMAS B. MEEHAN,

A RESUME OF THE SEASON AND ITS BUSINESS.

(Compiled early in November.)

IN THE EAST.

NEW YORK.

The past season has been exceptionally good for growing trees, and trade the largest in the history of the Nurseries, particularly in the ornamental line.

Batavia, N. Y.

N. BOGUE.

We have had a good growing season for nursery stock, and all the trees have ripened up very nicely, and are in good condition for the winter. Sales have been good, everything cleared up excepting a few apples.

Dansville, N. Y.

W. H. HARTMAN.

As a whole the past summer was cold and backward, with intervals of very warm weather during which stock of all kinds grew very rapidly, so that it is fully up to, or perhaps a little above the average in quality. Fall trade was not equal to last year, but above that of four years ago, with which, we think comparison should be made.

Fredonia, N. Y.

T. S. HUBBARD CO.

PENNSYLVANIA.

The season with us up to this date, November 1st, has been entirely satisfactory, considering the reports we have received from other sections. We had a splendid growing season and stock was well ripened up by the first of October when we commenced shipping. We were likewise fortunate in having ample rains since the first of July, so that our shrubbery in particular made an especially strong and heavy growth. A few early frosts helped to ripen the wood so that when we commenced shipping, the stock was not only in good condition, but the ground was fine for digging. We had very little rain from that to the middle of the month, by which time the ground had gotten quite dry, making the digging of large trees especially, excessively difficult and expensive, but about that time we had several soaking rains, which were of great assistance to us.

With us trade usually continues in good volume up until at least the 15th of November and frequently, if we have good weather it is fairly strong up until the first of December. Weather conditions being good just now, we rather expect that we shall have a full November month of shipping. The volume of business probably is not as great as at this time last year, but the outlook for spring is most promising, and we look for a very heavy spring trade.

Dreshertown, Pa.

THOMAS B. MEEHAN.

We have had a fair growing season with good demand for stock and prices steady. The fall plantings in this section are heavy.

Bridgeville, Del.

MYERS SON.

The growing season just passed has been all that we could look for, and nursery stock, generally speaking has made a fine growth. This is our busiest season of the year and we are receiving more orders than we can fill, as many of the varieties are now exhausted. If the weather continues good we will get the larger part of our shipments out in the next two weeks, although we will be quite busy until we are stopped by cold weather.

Baltimore, Md.

FRANKLIN DAVIS NURSERY CO.

THE SOUTH AND SOUTHWEST.

Stock has made fine growth. The dry fall has ripened stock earlier than usual. Shipping season promises to be good. Farmers are prosperous.

Fort Worth, Tex.

BAKER BROS.

Our stock has done very well indeed, in fact the growth has been almost too heavy, especially with peaches which are most too large to handle profitably. Our sales have increased somewhat, and the indications point to a still further increase next year. We have the largest block of peach we have ever grown, something over 700,000.

Richmond, Va.

W. T. HOOD & CO.

Our fall shipping is now on. We have all the business we can manage for fall shipment; largest sales we have ever had. Stock has made an average growth the past season. Our outlook for stock for 1905 is fully 50% greater than for this season as our stands are much better and plantings larger.

Our main draw back which has become alarming throughout the South is that we have to throw away from 40 to 60 per cent. of all the apple trees we dig on account of crown gall, root knots, etc.

Can any of the nurserymen give a remedy for this trouble or a preventive?

Pomona, N. C.

J. VAN LINDLEY NURSERY CO.

The unprecedented drouth which has prevailed in many sections of the South since early in August is at last broken. In consequence of this drouth the growth of some plants has been cut short but it is remarkable to state that the growth of many varieties was not in the least affected, notably apples, which have made a phenomenal growth. Stock is also hardening up much earlier than usual and for the past three weeks we have been shipping trees and ornamental shrubs to eastern and western points. First ice of the season, Oct. 24th.

The demand for nursery stock is very heavy, and the outlook for a brisk winter business is very bright.

Augusta, Ga.

P. J. BERCKMANS CO.

THE MIDDLE WEST.

Our season for growing stock has been the best for a number of years, sufficient rain to keep stock coming the entire season.

The supply of stock in this vicinity is only normal and prices will be maintained with a sharp advance on gooseberries, blackberries and red raspberries.

New Carlisle, Ohio.

W. N. SCARFF.

The past season has been a very satisfactory growing season with us. We have had less leaf trouble than for a few years past, and stock on the whole has done very nicely.

Our Fall trade has been very satisfactory, and we see no reason why the coming season should not be equally so.

Charles City, Iowa.

E. M. SHERMAN.

Would say in regard to the growing season for trees with us, that it has been a little below the average, we think. Owing to the cold, cloudy weather, some lines of stock failed to put on the proper growth.

Regarding the season from a business standpoint, we think it is perhaps very similar to last year as far as dollars and cents are concerned.

Perry, Ohio

L. GREEN & SON CO.

From the growers standpoint, with us, the season has been rather a disappointment. We had a very cold summer, with no hot weather, which prevented our blocks, especially such trees as Peaches, from making their usual growth, and they run much more to lighter grades than usual.

We as yet have had no time to make any footings on our fall trade, and are still very busy with our fall shipping. We judge that the business will not foot up as large as it has done for the past few seasons, while we probably have handled fully as many orders, they have run smaller.

Painesville, Ohio.

THE STORRS & HARRISON CO.

From a stock growing standpoint as well as a business one, the season in this region has been a favorable one. Although in the early summer there was some excess of rain yet there were no disastrous floods. The autumn has been fine and without killing frosts until the very last days of October. Since then we have had about fifteen days of dry cool weather so that everything has ripened very well indeed.

In a business way it may be said first, that the salesmen on the road have done better this year than in the past two or three years, and with the fine crops secured during the beautiful weather this fall, the outlook for winter work is very promising. Wholesale trade has not been heavy

this fall because most of the shipping to planters is done in the spring instead of in the autumn as was the case thirty five years ago.

Des Moines, Iowa.

C. L. WATROUS.

The growing season was exceptionally good for weeds and grass and some lines of nursery stock while other lines made but little growth. Carolina Poplar, for instance, usually grows 10 to 14 feet the first year from cuttings, the past season it grew 10 to 14 inches. From a business standpoint our summer sales were up to the average but the bulk of our business is done in the winter for spring delivery.

The Lees Summit Star Nurseries, Mo. M. BUTTERFIELD & SON.

Stock throughout this part of the country is not in as large supply as last year and the sales have not been quite as large or good, on account of too much rain, which made poor stands and poor growth. The overflowing of the streams has badly crippled the planters where the best of the sales were made in this western country. Stock, however, is ripening up fine and will go into the winter in prime condition.

Parsons, Kan.

WILLIAMS & BERNARDIN.

Our season in Nebraska has been exceptionally fine for propagating and also for germinating seed. We never had a better stand of apple seedlings and the growth has been very satisfactory. All kinds of trees have made vigorous growth with the exception of cherry. We had a little too much rain for these and the trees shed their foliage. From a business standpoint, will say that our fall trade was fully up to our expectations, in fact there were more orders booked than usual and all indications point to a very heavy spring trade.

Geneva, Nebr.

YOUNGERS & CO.

Just now we are through shipping apples and digging trees. We regard the winter apple crop at 20 per cent. The weather has been so warm and wet that we are afraid that Nebraska apples will not keep. Our merchants are planning to purchase their winter apples from New York. The peach crop on the other hand was very favorable indeed and has done much to reassure our Nebraska orchardists and to encourage them that fruit can be grown in large amounts with profit. Peach orchards 200 miles west of the Missouri river gave a very good account of themselves and having a high price local market were in a small way indeed, quite profitable.

Crete, Nebr.

THE CRETE NURSERIES.

The season was late here owing to the cool, dry August which was followed by warm, wet September. Stock, up to the usual digging season, October 1st to October 10th was very green. On the whole the growing season on peach, two year pear and two year cherry was very good, but on plum, especially european, apple and one year cherry it was not so good. Dry, clear, crisp October weather has ripened up everything which will go into winter in good shape. This is especially applicable to the stock in dormant buds, on all of which an unusual good set of buds has been secured. Owing to the late season but little effort was made by us for early fall business but we anticipate our late fall and winter business will be as good as usual.

New Haven, Mo.

NEW HAVEN NURSERIES.

PACIFIC COAST

From a growing standpoint, the season has not been very good for the nurserymen in the Willamette Valley. During last winter it rained almost incessantly until the early part of April, preventing planting being done in February as usual in our country. After the middle of April we had very little rain until the middle of October, making perhaps the longest dry spell we perhaps, have ever had, in this section. As a consequence there are heavy losses on seedlings planted in the spring and growth on both seedlings and trees is much less than usual. Still, on account of the dry summer, our stock has ripened up nicely and is in better shape for fall shipments than usual.

From a business standpoint, we may say the season has been very good; our sales at the present time are 10 per cent. in excess of the same date last year, while prices are equally as good and in many cases better. We believe that the same average will apply to most of the nurserymen on the coast who are doing an active business.

We are just finishing our fall shipments at this time, but have not got far enough into the deliveries to make any statement about collections, we look, however, for them to be as good as last year, at least.

Salem, Ore.

OREGON NURSERY CO.

Correspondence.

JUNE BUDDED PEACH TREES—A REPLY.

We notice on page 145 of the November issue of NATIONAL NURSERYMAN quotation from "A Leading Nurseryman" under the heading "Supply and demand" in reference to June budded peach trees.

Now we quite agree with this nurseryman about June budded peach trees as grown in the North and northern part of the South but must take exception to what he says about them as regards the lower South. He evidently has not investigated the subject very thoroughly as far as trees grown in the lower South are concerned, otherwise he would not have made such a sweeping statement as that contained in his letter.

We have, for years, grown practically no other kind of peach trees than June buds. They are by all odds the best peach trees we can grow here in the lower South. They are greatly to be preferred in every way to the dormant budded peaches. Here in the lower South, we can grow June budded peach trees as large as any one wants them and as fine as can be grown anywhere in any way. In some seasons, it is actually necessary for us to discontinue cultivation before the growing season is over in order to keep these June budded peach trees from attaining a size too large to be easily marketable.

We have many hundreds of testimonials from customers throughout the North and South, speaking in the highest praise of our peach trees. In fact we have one customer in Alabama—a man who has planted several thousand peach trees during the past few years—who says he is willing to pay us \$15.00 or \$20.00 per thousand more for the same sized Elberta peach trees than he would have to pay to get them from nurserymen further north on account of the fact that our June budded trees give him results so much better than the other trees that he feels warranted in doing this. He will in fact, purchase no other kind than June budded trees as he says he has, from long experience, found June peach trees so much better than other kinds as to warrant him waiting a year for June budded trees rather than plant dormant budded peach trees.

Nor is the above a single exception. We have hundreds of customers throughout the lower South—planters who have had ample experience in the planting of both kinds of trees—who will not set any other kind if they can possibly get the June buds.

Glen Saint Mary Nurseries, Fla.

AUBREY FRINK.

THE SAN JOSE SCALE AND NURSERY CONDITIONS IN GEORGIA.

I am not able to report definitely upon San Jose scale conditions in southern states other than Georgia, but in Georgia I think we have the situation well in hand. Our nursery inspection is very close and exacting, and as a protection to the nurserymen we inspect, so far as possible, all orchards from which they take grafts and budding wood. In this way we often prevent nurserymen from purchasing infested buds, and hence getting their nurseries infested. All of our principal nurserymen and many of the small nurseries are equipped with first class fumigating houses or boxes and a thorough fumigation of all nursery stock sold in this State is required.

The nursery business in Georgia has shown a very healthy growth during the last two or three years as has also the peach industry. In commercial orchards in those sections of the State where San Jose scale occurs, the orchardists control the pest satisfactorily by spraying with some one of the lime-sulphur mixtures. In fact, they find that it is possible to grow just as good fruit and just as much fruit in infested orchards that are properly treated as it is to grow good fruit in a non-infested orchard. In our climate the San Jose scale breeds from April to November, or even longer, and is particularly destructive when allowed to have its own way. I think there is no doubt whatever, but that in some sections of Georgia the San Jose scale is actually putting out of business the careless and indifferent class of fruit growers who rarely, if ever, produce good fruit anyway. If anything, the San Jose scale is proving a benefit to the progressive and up-to-date orchardist.

While San Jose scale occurs at a good many points in the State, it is by no means universally distributed, and I think this Department is succeeding in checking its rate of spread very materially, and there are some sections in the State where it may not occur for a good many years to come.

Atlanta, Ga.

WILMON NEWELL,
State Entomologist.

The National Nurseryman

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., DECEMBER, 1904.

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NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

"It is possible for a man to cause the wood of his trees to become mature at any time and some fruit growers now understand this fact."

Here is a statement by an **HORTICULTURAL PARAGRAPHERS.** "office horticulturist." It is very easy to dictate or write a sentence of this kind but the man

who grows nursery stock or orchards, knows a good deal better. He knows that to a large extent he is a creature of circumstances; that soil and climate limit his scope of action to a very considerable degree. It is perfect nonsense to say that a man can arrest the growth of his orchard trees or his nursery stock during the height of the growing season, especially if that period were accompanied by ideal growing weather; and the same is true of orchard trees.

Of course we know that the growing season may be extended, or curtailed to some extent by cultural methods, but what we object to, are broad statements by men who possibly have had no practical experience whatever and who are nevertheless trying to lead the blind. One way of obviating statements of this kind is by newspaper men being a little more particular in selecting correspondents and in admitting contributions.

We propose to mark the opening of the new year by publishing in the January number the first of an exceedingly important series of articles which are to appear each month in 1905 and longer if necessary. These articles are to deal with the great commercial fruit tree growing regions of the United States and our friends of the Dominion to the North. They will give something of the history, the development and the present day condition of the business.

The sketches will be faithful representations of the sections described and reliable descriptions of the business enterprises of firms included. The purposes of the articles are:

1—To record general nursery development.

2—To emphasize the specialties of each section.

3—To credit the pioneers of the past and the progressive men of the present with the important advances for which they have been responsible.

The reviews will be carefully written and adequately illustrated. We shall hope for the cooperation of the nurserymen in this important venture and take this means of introducing them to the general plan of the enterprise.

Is it not "up to" the nurserymen of the country to encourage the planting of better varieties of pears, than Keiffer and

even Duchess? Not long since we received a collection of fine European varieties of pears from Messrs. Ellwanger & Barry of Rochester, N. Y.,

Few of these varieties are to be found in the catalogues of any nurserymen of the United States. It is probable that they are not there, because the demand for them is limited; but after all do not all good varieties move slowly at first unless exploited by some one. Perhaps one thing which retards the introduction of some of these high quality French pears is their lengthy and unpronounceable names. This note is incited by a letter from C. W. Ward of Queens, Long Island, in which he gives his experience with Belgian and French pears during a recent visit to the land of their origination. Mr. Ward returns from his European trip very much impressed with the quality and highly enthusiastic in regard to these productions of the Dutch pomologist Van Mons, which have

in recent years been lost sight of except by those who appreciate good quality in fruit. The main point for us to consider is this: is there not an opening for some retail nurseryman who would cater to the needs, if not the demands of land owners and proprietors of small homes in the vicinity of large cities? We propose in future numbers to devote some space to descriptions of these finer varieties of European pears.

We hope that all members of the American Association of Nurserymen are looking forward with pleasant anticipation to **THE ANNUAL MEETING.** the annual meeting and that a large number are already making plans to attend. These meetings of the nurserymen of the United States and Canada are valuable from several standpoints. They facilitate business. They are in fact a medium for business exchange; they provide physical and mental relaxation; they encourage fraternal intercourse and lastly the intellectually inclined may find food for mental enjoyment.

There are those who attend solely from business motives and who probably return to their homes, fatigued instead of being rested. There are others who go with the fraternal and good-fellowship point of view largely in evidence; with these we sympathize. These men usually get their money's worth. The man who goes for a rest, does not get it as a rule but he does get a change, which is equal to, or better than a rest. Then comes the programme and as a rule that is worth while.

In addition to all these considerations, there seem to be especial attractions in the place selected for the meeting of 1905. The principal features of the West Baden Springs Hotel are set forth elsewhere. It is well worth while looking them over. Let us make our plans to attend the coming annual meeting. It is well to bear in mind that good living consists not only in getting money, but also in enjoying the high privileges of citizenship and comradeship that associations like ours provide. These privileges are only realized in full, by those who take advantage of them day by day as they journey along.

The much discussed and oft thrashed out question of the relative advantages of budded and root-grafted trees is brought **ARE ROOT-GRAFTED TREES DEFECTIVE?** to our notice again quite forcibly by a letter from a correspondent, residing in the Middle West. The writer states it is a matter of common observation in this locality, that piece-rooted apple trees in orchard have generally failed, because of imperfect and insufficient root development. The trees are said to have done fairly well for a time after being set in orchard but when they approached the bearing age they showed a tendency very marked in some instances, slight in others, to list to one side or the other. This leaning or listing he attributes to weak root growth due to method of propagation.

We confess to having observed something of the same thing in Iowa, some years ago. Whether the leaning of the trees in this case is due to method of root-grafting or the character of the soil, we are unable to say. Certain it is, that one sees a good deal of this on the drift soils of Iowa. In the east, few root-grafted trees are planted.

Can we make this charge a general one? May it not be due to characteristics of varieties and is it not truer of weak growers than of vigorous growers? Will not a strong, sturdy variety make good roots when grafted or budded, and is it not the tendency for weak growers like Jonathan, Wagener, and

Boiken, to develop a weaker root system when root-grafted than when budded? If this be true, then some discrimination should be made by nurserymen with regard to the manner of propagating apples of varying degrees of vigor. We believe that this subject offers a very good field for investigation. We do not think that the last word has been said upon the relative merits of root-grafted and budded trees, nor do we believe that it is possible to generalize safely on the subject.

In propagating cherries the nurseryman has a greater variety of stock to choose from than in the case of any other **CHERRY STOCKS.** class of fruit. In propagating apples he is limited to stocks grown from american or european seed unless he desires to dwarf his trees, when he considers the merits of dwarf stocks, as Paradise, and Doucin. In cherries he has a much larger list from which to select. He is called upon to consider the qualities of Mazzard, the especial value of Mahaleb; if in the Northwest and if he would follow the advice of some enthusiasts, he would use Sand Cherry; if in the Northeast and again following out the advice of other orchardists and experimenters, he might use Bird Cherry; and finally, if in Nova Scotia and parts of New England, he might be strongly urged to use Morello.

It is probable that each of these stocks has qualities and values well worth considering but as a matter of fact and experience, it is also probable that more cherries are worked upon Mahaleb than all the others put together. It is also admitted that we do not know as much about this whole subject as we ought to.

Importers are suggesting the use of german sour cherries, one of the forms of *Prunus cerasus*. This generic group includes many types and the difficulty is to know what particular type is represented by the commercial sour cherry. There are several well defined types. In Russia, the Vladimir, is undoubtedly an off-shoot of the Morello but it has been modified so impressively by climate and soil, that as it is now found growing in Russia, it is hardly recognizable. In Germany, the Ostheim cherries form another and quite well marked type. They are much larger growing trees than Vladimir and the fruit is lighter in color and larger in size. Montmorency would seem to form another natural group; the Richmonds still another and besides these we have forms which appear to be intermediate between the strictly sour and somewhat pendent cherries, and the more or less upright and sweet Duke cherries.

In a general way, we believe that the Morello Cherry has not been sufficiently exploited as a stock, particularly for sour cherries in the Northeast. At the same time we recognize its limitations. It does not work as readily as Mahaleb and it suckers altogether too freely for comfortable and satisfactory cultivation. This matter of cherry stocks should be of interest to the trade and we are sure that letters from propagators who have studied the question somewhat, would be of great interest to the readers of the NATIONAL NURSERYMAN. All persons interested are invited to offer contributions in the form of experience, opinion, or suggestion.

AN EXCELLENT SEASON FOR THE WABASH RAILWAY.

The liberal patronage accorded by the travelling public to the Wabash Railway during the World's Fair season abundantly testifies to the excellent quality of the service. The efficient passenger agent at Buffalo Mr. Kelly, has been unremitting in his efforts on behalf of the public and these efforts have been successful and much appreciated.

Quiz Column.

GERMINATING BARBERRY SEED.

To the Editor National Nurseryman, Rochester, N. Y.

SIR: Kindly inform me through your columns how to germinate plant and care for the seed of *Berberis vulgaris*. If to be stratified during winter shall it be in dry or moist sand?

WOODBURN, ORE.

G. H. ROBBINS.

Barberries may be grown very satisfactorily, by planting the seed directly in the ground in the fall but the germination is rather irregular under this kind of treatment. The best plan is to rub out and stratify the seed in moist sand and plant it in spring. The seed should not be allowed to become dry before planting. As soon as it is ripe it should be collected, separated from the pulp by rubbing in sharp sand and then mixed with soil and stored in the cellar. A good way is to sow the seed in beds about the size of hot bed sashes, having them so placed that they can remain undisturbed for two or three years, because often under the best treatment there will be some unevenness and irregularity in germination. Sandy loam is a most desirable soil to use. It is a good plan to shade the beds slightly during the forepart of the summer.

A SMALL THOUGH "MITEY" ENEMY.

Editor National Nurseryman.

DEAR SIR: Enclosed find a few Linden leaves which are affected—many on trees were worse than these—by some insect. This insect begins laying eggs about May 1st to 10th maturing in about 60 days. The galls appear shortly after eggs are laid increasing in size for a period of about 4 weeks after which time, until the insect emerges, they remain about same size.

Can you give me any treatment that will or has been successful in combatting them?

So far as I have been able to learn, very little is known about this insect. There are some trees in one of our Parks here that are badly infested. They are the only ones that have come under my observation that are affected with this trouble. My impression is that arsenical poisons would hardly reach the "critter."

DAVENPORT, IOWA.

B.

Answer—I think, but am not sure, that the galls on the linden are the work of a mite, a microscopic animal allied to the spiders. The galls on the leaves now are so dry and dead that it is difficult to give them a critical examination. I doubt if a poison spray would affect the depredator, but if it is mites, they probably winter in the winter buds as do the pear leaf blister mites. If so, a spray of whale oil soap (one pound in two or three gallons of water) applied during winter or before growth begins in spring will check them. Try this on a few trees.

M. V. SLINGERLAND,

Cornell University, Ithaca, N. Y.

ROOT-GRAFTED VERSUS BUDDED TREES.

Editor National Nurseryman.

I am quite a good deal interested in orchard work and I expect to plant a large orchard of apple trees in the near future. Many of us are having very poor success with our grafted apple trees. They seem to be so short lived and do not stand our severe wind, blowing over very easily. They appear to be shallow rooted and without tap root. They also rot at the graft and often break off at the union. It seems almost impossible to keep the borers out of them. I have thought of planting budded apple as I notice our best orchards are budded apples. Can you send me any literature on this subject treating on budded apples?

Our Western horticultural societies seem to uphold the grafted trees, but it looks to me as though reason and common sense teach that a tree grown from the seed with a tap root and sound heart, with a free cir-

ulation through the body of the tree, would be better than a grafted tree with only a piece of the root that nature intended a tree to have.

These are my sentiments and I would like to know how other people think of it.

MONTGOMERY CITY, MO.

W. N. C.

Answer—The questions you raise in regard to the propagation of apples by budding versus grafting, are interesting. They are however, not new, and as you may know they have been threshed over for many years by partisan and non-partisan disputants. There are those who conscientiously believe (and in some cases their notions are based upon a large amount of personal experience) that the budded tree is best. There are others who are equally sincere in believing that the root-grafted tree is best. I think the time is approaching when a conclusive survey of the whole question is feasible, but the person who will undertake it is not yet in sight. It is clearly a national, non-individual and non-local problem.

From my own standpoint, I have seen occasional evidence which might lead me to believe that the budded stock made the most satisfactory tree; but to combat this I have the results of an experiment carefully planned and executed under my own eye some twelve years ago at the Experimental Farm at Ottawa. In this experiment, whole root-grafts which correspond practically to budded stocks, were used in opposition to piece roots. Different methods of grafting, as whip and side-grafting, were employed. Collar grafts were compared with tip-root grafts. Base scions were compared with terminal scions. After the intervening years, we find nothing distinctive in the behavior of the trees which would lead us to recommend one method or condemn the other. The variety used was Wealthy, and the trees have been uniformly vigorous and productive. At the present time there seems to be nothing characteristically different in their habit of root or top growth to warrant the statement of well defined differences.

To combat the idea that a budded tree is essentially different from a grafted tree, we must remember that the budded root is trimmed and so loses its tap root, that the scion practically overrules the root in regard to its form; and, that the union between the bud placed beneath the bark of the stock and that of the scion spliced to the stock, is essentially the same. There is no true physiological union in either case. The joining up is in the nature of a mechanical union, and while there is probably less disturbance or hindrance of sap flow in the case of the budded tree than in the case of the root-grafted tree, yet I do not believe that the difference is very material or marked.

If you have an opportunity for gathering a body of experience or mass of data on this subject, it would be a very useful topic to investigate. You should, however, consider, in connection with the investigation, the character of the soil, because this has a very important bearing upon the development of tree roots. Some soils favor deep root extension, while others discourage it. A discussion of this topic occurs in the "Nursery Book" by Bailey, which, at the time of publication, brought the matter practically up to date. Even at the present time, it affords a very satisfactory review.

It should be added that there is another argument in favor of root-grafted trees. If one were living in the upper part of the Mississippi valley or in the cold regions of the Northwest, I believe that root-grafted trees are best, for the reason that tender rooted trees are subject to root-killing in those sections;

and the root-grafted tree has the tender root better protected than the budded tree. I have seen many cases where the seedling root was killed, while the top was entirely uninjured. This is often observable in the case of grafted as well as of budded trees. On the side of the nurseryman, there is this to be said in favor of the budded tree—that at one or two years old it is larger and more salable than is the root-grafted tree; but as time goes on and the root-graft becomes thoroughly established, the difference between the two fades out. Where root-killing was not a factor in the case then so long as the tree was well grown, I should not care whether it was a root-graft or a bud. [J. C.]

TRADE MARK DECISION.

[A correspondent furnishes the following important item.]

"On October 13, 1904, the suit between the Albaugh Nursery and Orchard Co. of Phoneton, O., and Rannels, as to the validity of the "Diamond Peach" trade mark, came up for hearing before the Common Pleas Court at Troy, O., Judge Jones presiding. The damage claimed was \$20,000. The Albaugh Company won the case, the Judge deciding that the Diamond Peach trade mark was good and valid; that it protected the said company from infringement, by other parties either from using the exact copy of the trade mark or any imitation thereof, calculated to deceive, such as Diamond Cling, D. Cling, D. C. Peach, D. Peach, or any other imitation that might deceive customers. The case was well argued on both sides, by able attorneys, and the decision was clean cut and in seeming accordance with a late supreme court decision as recorded in the 68th Ohio State reports."

THE COMPANION INFORMS AND ENTERTAINS.

THE YOUTH'S COMPANION uses entertainment as a means rather than an end, conveying always in its fiction and its articles some convincing truth of some contribution to the useful knowledge of its readers.

The 225 men and women enlisted to write for THE COMPANION represent an infinite variety of talents and callings. Through THE COMPANION they address not only the young and impressionable, but the fathers and mothers of the nation. The entire family claim a share in the good things which fill THE COMPANION'S pages.

Full Illustrated Announcement, describing the principal features of THE COMPANION'S new volume for 1905, will be sent to any address free.

The new subscriber for 1905 will receive all the issues of THE COMPANION for the remaining weeks of 1904 free from the time of subscription, also THE COMPANION "Carnation" Calendar for 1905, lithographed in twelve colors and gold.

THE YOUTH'S COMPANION,
144 Berkeley Street, Boston, Mass.

The December Delineator, with its message of good cheer and helpfulness, will be welcomed in every home. The fashion pages are unusually attractive, illustrating and describing the very latest modes in a way to make their construction during the festive season a pleasure instead of a task, and the literary and pictorial features are of rare excellence. In addition, there are the regular departments of the magazine, with many special articles on topics relating to woman's interests within and without the home.

SPORTS AND VARIATIONS OF STANDARD VARIETIES OF APPLES.

The longer fruits are cultivated the more do standard varieties tend to produce desirable variations. Those who are interested in this subject should correspond with A. C. Rogers, Department of Horticulture, Cornell University, Ithaca, N. Y. Mr. Rogers is making a special study of apple variations.

A. M. Whitcomb, Albuquerque, New Mexico.—"Yes! I can afford it and would not be without it, if it cost twice as much. Send it regularly."

Marble City Nursery Co., Knoxville, Tenn.—"Enclosed find one dollar for subscription for another year. We certainly cannot afford to be without your valuable paper. We would be like a ship without a rudder and without a compass as well."

Doings of Societies.

HORTICULTURAL MEETINGS.

New York State Fruit Growers, Geneva, January 4, 5.

New Jersey, Trenton, January, 5, 6.

Pennsylvania Association, Harrisburg, January 17.

Cranberry Growers, Philadelphia, January 17.

South Dakota, Huron, January 17, 19.

Peninsula, Seaford, Delaware, January 17, 19.

Nebraska, Lincoln, January 17, 19.

Rhode Island, Providence, January 18.

Western New York, Rochester, January 25, 26.

Carnation Society, Chicago, January, 25, 27.

The Virginia State Horticultural Society will hold its annual meeting at Front Royal, Virginia, December 13, and 14.

Minnesota State Horticultural Society meets in Minneapolis December 6-9, 1904.

The annual convention of the Association of American Agricultural Colleges and Experiment Stations took place at Des Moines, Iowa, November 1st.

The Society for Horticultural Science will meet in Philadelphia on December 27 and 28 during the week of the American Association meeting.

WAREHOUSEMEN'S ASSOCIATION MEETING.

The fourteenth annual convention of the American Warehousemen's Association will be held at the New Willard Hotel, Washington, D. C., on December 7, 8, and 9. Secretary Walter C. Reid of New York City, states that from replies to invitations to attend already received, he feels confident that the attendance will be larger than in any previous year. The officers have spared no pains to make the coming meeting of unusual interest and value to the trade, and the good results are shown in the promise of increased attendance.—*Cold Storage and Ice Trade Journal*.

NOTE.

The American Pomological Society has received an invitation from the management of the Lewis & Clark Centennial Exhibition, to hold its next biennial session in the city of Portland, Ore. The invitation is being considered by the executive committee and the many attractions of the Pacific Coast, aside from the exposition itself, will favorably predispose the management towards selecting Portland for the place of the 1905 meeting.

AMERICAN APPLE GROWERS' CONGRESS.

The annual meeting of the Association was held at St. Louis on November 9th, 10th and 11th. The meeting took place on the World's Fair Grounds in the Administration Building. Sessions were held from two to five o'clock daily, and were all well attended.

The first afternoon was taken up with the Opening Address by F. W. Taylor, chief of Department of Agriculture, World's Fair, and a talk by the Hon. H. M. Dunlap, president of the association, on the "Best Method of Disposing of the Crop."

On Wednesday afternoon three important papers were read. First came that of W. A. Faylor of Division of Pomology, Washington, D. C., on "Foreign Markets and What can be Done to Extend Them." Mr. Taylor thinks that in the future our chief markets will be those across the water. Prof. Crandall—the curculio expert—of the University of Illinois, gave a synopsis of the "Results of Recent Experiments in Controlling the Apple Curculio." He showed that the curculio can be materially lessened by repeated sprayings, but found that the cheapest and most practical method of combating this pest is to destroy the fallen fruit and practice through cultivation. Another speaker who will be remembered by all who heard him was Mr. Alex. McNeil of Ottawa, Canada. He gave a very interesting talk on "State or Government Inspection of Apples for Home or Foreign Markets." He said that the Fruit Marks Act of Canada has proved a great success, and has been the means of Canadian fruit bringing higher prices in England than that of the United States.

R. C. SIMPSON.

NEXT ANNUAL MEETING OF NATIONAL NURSERYMEN AT WEST BADEN SPRINGS, INDIANA.

INTERESTING LETTER BY PRESIDENT E. W. KIRKPATRICK.

Through the kindness of Mr. Albertson of Bridgeport, Ind., Mr. Sam. H. Dixon of Houston, Texas, and the writer visited

conveniences are all that can be wished. The assembly rooms, halls and parlors are in splendid form, style and supply.

The health giving waters of numerous springs are convenient and made famous for their purity and power in restoring those who need rest and recreation. Those who prefer other than nature's offering can find a great variety of standard liquid refreshment. Bowling alleys, billiard rooms, games of many kinds and every desirable diversion is provided.

The railroad and trolley line whisks one to many points of interest in this beautiful valley and among the charming hills. The mammoth trees of a northern forest are here shading lawn and stream and crowning hill and dell and holding constant guard for centuries against the storm king and his minions. Art and nature combined have made this one of the most attractive beauty spots earth. The members of our society and all other people can find a most charming place here for both summer and winter outing. They can safely bring their families and friends and be assured of most beneficial and pleasing results. A large attendance is expected and

much pleasure and interest is anticipated.

Mr. and Mrs. W. C. Reed of Vincennes, Ind., were visiting West Baden and they added much to the interest and pleasure of our visit. Mr. Albertson of Bridgeport, Ind., escorted us to Indianapolis, where we were shown some of the wonderful

West Baden Springs Hotel at West Baden, Ind., on September 18th, 1904. We had received a favorable impression of this famous watering place through reports but, after we had visited this beautiful valley, viewed the palatial hotel and examined some of the principal attractions, conveniences and beauties, we were impressed with the difficulty of understanding, or of realizing the grandeur, magnificence and completeness of this famous palace and its surroundings in any other way than by visual inspection.

We had a pleasant day-ride across Illinois and Indiana and viewed the rich country along the line of the B. & O. and also the famous Monon line whose favors we gratefully acknowledge.

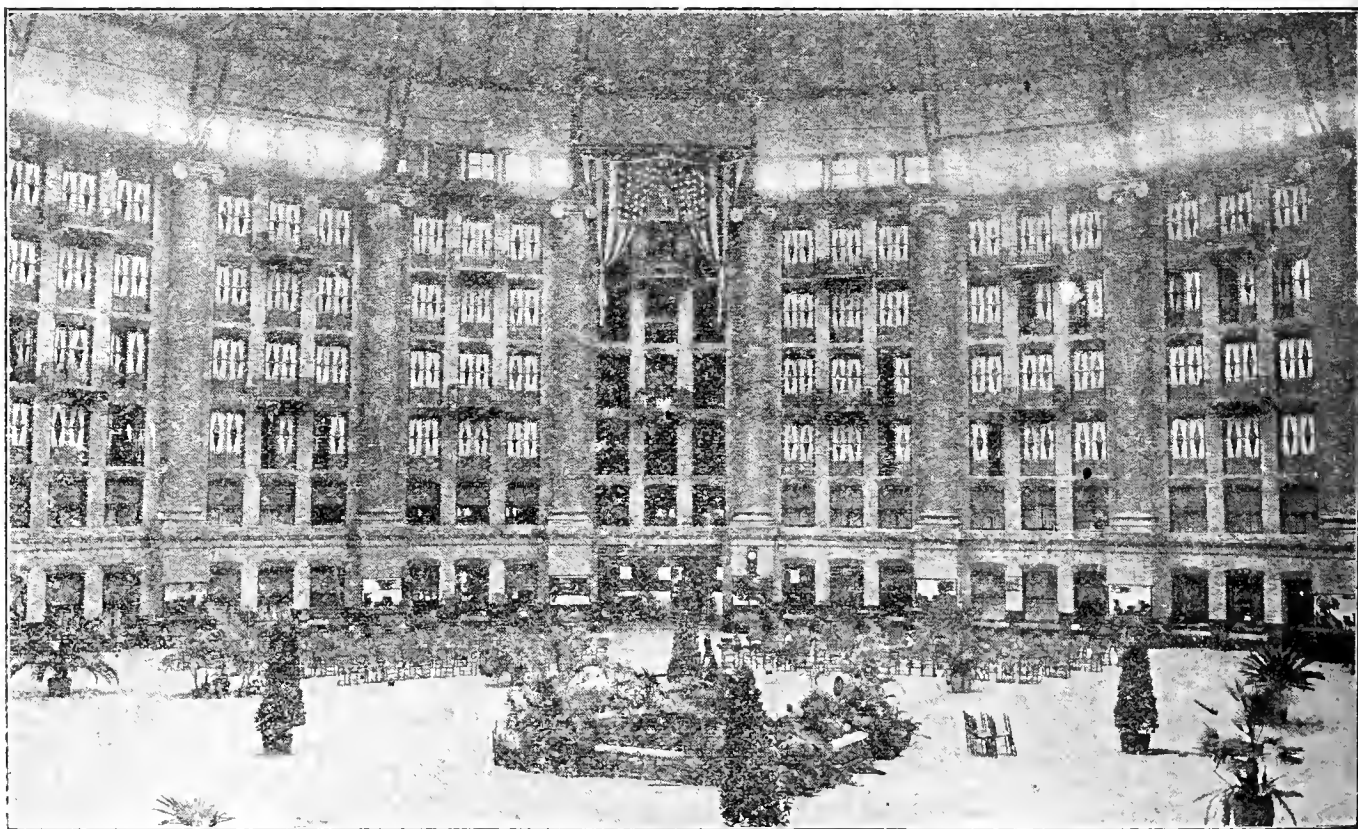
The railroads! how indispensable to every phase of our civilization—while we are expending so much valuable time in criticising the railroads, we might very appropriately express a word of appreciation of the unmeasured service they perform. Since railroad men are probably no better and no worse than we, it would appear to be unbecoming in us to beeverlastingly abusing them while they silently obey our commands.

We found the proprietor and officials of the great hotel pleasing and companionable people. The service and the



NEW HOTEL OF THE WEST BADEN SPRINGS CO. ABSOLUTELY FIRE-PROOF.
THE EIGHTH WONDER OF THE WORLD.

WHERE THE NURSERYMEN WILL MEET IN JUNE 1905.



GRAND ATRIUM

WHERE THE SEASON'S EXPERIENCES WILL BE RECOUNTED

points of interest in that great city. Mr. Albertson entertained us at his home and we saw the famous Bridgeport Nurseries with its immense stock of rare trees and plants.

Mr. Albertson is making much sacrifice of time and energy in preparing for what he hopes will be the most valuable of all our sessions, our meeting next June at West Baden.

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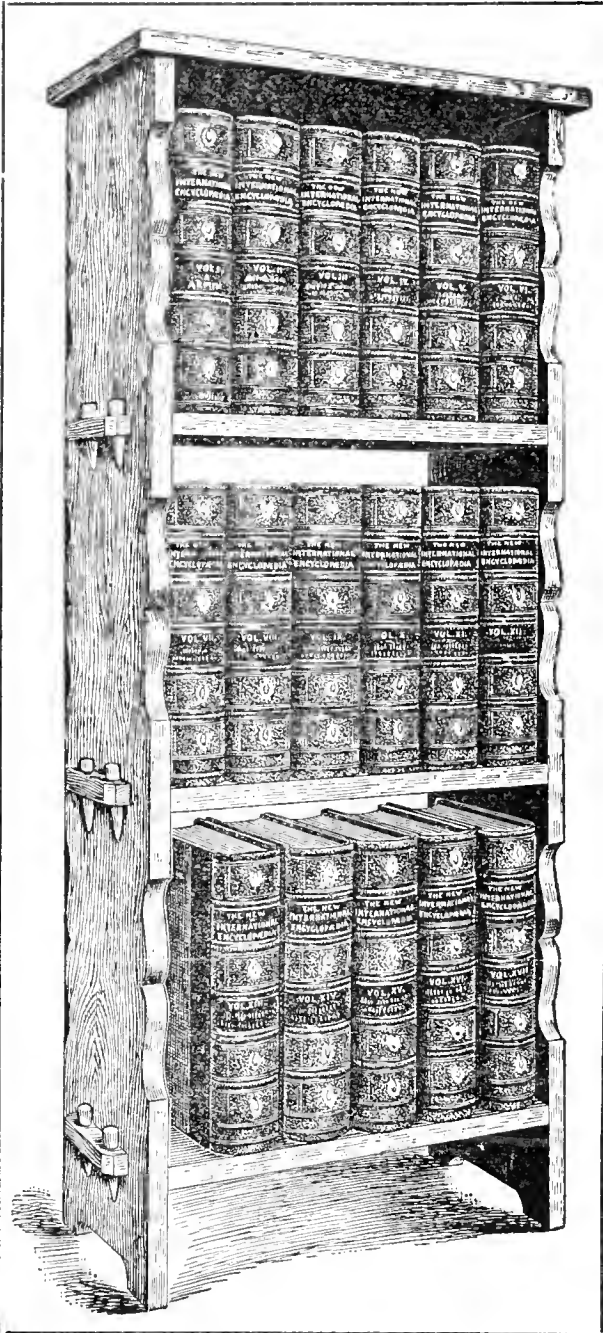
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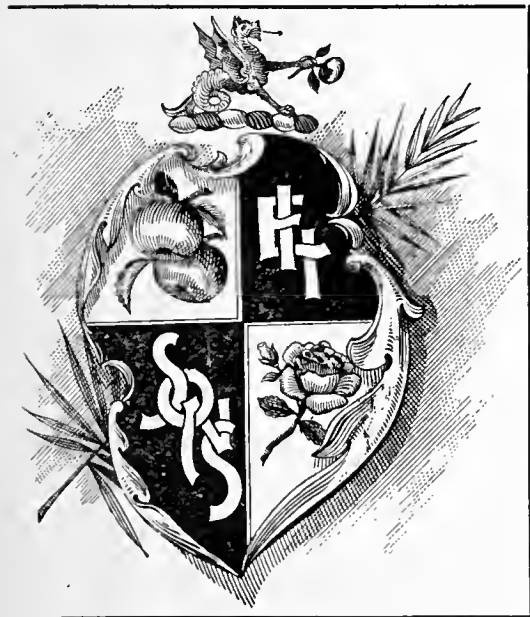
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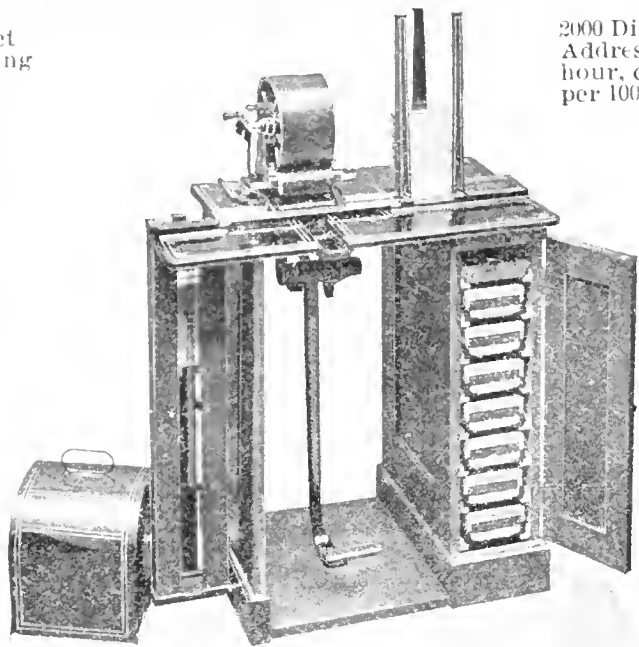
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WE OFFER for Fall 1902 and Spring 1903 a full line of strictly first class, well grown stock of Peach, Apple, Pear, Plum, also small fruits, Asparagus, Privet, Etc.

Several carloads of extra heavy shade trees, such as AMERICAN LINDEN, SUGAR, SILVER AND NORWAY MAPLES, ELMS, ETC., that will caliper 3 to 4 inches, fine full tops and straight bodies. SMOCK PEACH PITS by the 100 bushel and car load lots. Send for samples. SEND US YOUR LIST OF WANTS.

FRANKLIN DAVIS NURSERY CO.

BALTIMORE, MD.

When writing to Advertisers mention The National Nurseryman.

Hardy Perennial Plants

We are headquarters for Hardy Perennial Plants and not only handle the standard and popular varieties in large quantities but can also supply a large line of sorts not generally listed, for which it will pay you to look over our catalogues both wholesale and retail, copies of which will be sent to you free on application if you do not already receive same.

SPECIALTIES FOR SPRING, 1903

Hardy Asters, in great variety.
 Anemone Japonica. All leading sorts.
 Gaillardia Grandiflora, pot grown.
 Hardy Ornamental Grasses.
 Hemerocallis Florham. A grand new variety.
 Hypericum Moserianum. Strong field grown plants.
 Japanese Iris. 40,000 plants in stock.
 Herbaceous Paeonias. All the popular varieties.
 Oriental and Iceland Poppies.
 Hardy Garden Pinks. A choice assortment.
 Hardy Phlox, 75,000 plants in stock.
 Phlox Subulata, (Moss Pink) in variety.
 Stokesia Cyanea, the great Centaurea Aster.
 Tritoma Pfitzeri. The new everblooming variety.
 Clematis Paniculata, one, two and three year old.
 Also many other desirable hardy plants and vines.

HENRY A. DREER,

PHILDELPHIA, PA.

KNOX NURSERIES 1851 1903

WE OFFER FOR SPRING

the following well grown, thrifty stock. We shall be pleased to quote price on application.

APPLE. 2 and 3 year, mostly $\frac{3}{4}$ and up. Ben Davis, Grimes, Ingram, Jonathan, Y. Imperial, Akin, N. W. Greening, Wine Sap, etc.

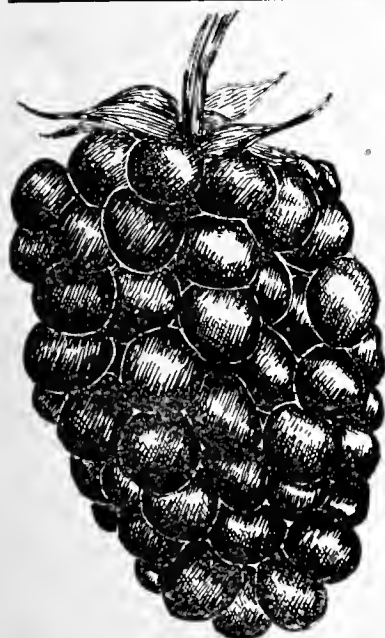
CHERRY. 1 year, $\frac{5}{8}$ and all up. Fine stock of elegant trees.

PEACH. 9-16 and up, and some small grades. Elberta and leading sorts.

KANSAS RASPBERRY TIPS.

SNYDER BLACKBERRIES. Sucker plants.

H. M. SIMPSON & SONS,
 VINCENNES, IND.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
 BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

W. T. HOOD & CO., OLD DOMINION NURSERIES.

RICHMOND, VA.

OFFER FOR FALL 1902 AND SPRING 1903

First class Peach, Apricots, fine lot of Sugar Maples, Silver, Norway and Weirs Cut Leaf Maples, Linden, American Linden, and Carolina Poplars. 100,000 California Privet, one and two year; 20,000 Citrus Trifoliata, two and three year; and 50,000 Silver Maple Seedlings.

Samples and prices on application.

W. T. HOOD & CO., OLD DOMINION NURSERIES,
 RICHMOND, VA.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
 Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

Snow Hill Nurseries W. M. PETERS & SONS, Proprietors.

SNOW HILL, MD., R. F. D. ROUTE

OFFER FOR FALL AND SPRING

800,000 Peach—1 year from bud.
 75,000 Apple—2 " " " on whole roots.
 50,000 Apple—1 " " " " "
 700,000 Grape Vines—1 and 2 year old.
 800,000 Asparagus Roots—1 and 2 year old.
 30 acres in Strawberry Plants—from new beds.
 Peach and Apple Buds in quantity.

Will contract to Fall Bud Peaches to be delivered Fall 1902. Certificate of inspection furnished. Everything fumigated. Correspondence solicited. Inspection invited.

Will be represented at Niagara Falls Convention, June 12th, by Chas. M. Peters, Badge No. 70. See Badge Book, pages 32-33.

TELEGRAPH OFFICE, SNOW HILL, MD.

NEW LAND APPLE SEEDLINGS, ALL GRADES
 OSAGE ORANGE, ONE AND TWO YEARS OLD

A. E. WINDSOR, Havana, Ill.

When writing to Advertisers mention The National Nurseryman.

MYROBOLAN PLUM SEED New crop ready for delivery. You get the best results by planting early. Samples on application.

MAZZARD CHERRY SEED READY NOW.

French Crab and Pear Seed Scarce. Prices later. Order what you require now, and remember that last year when the crop was scarce we delivered our orders in full.

FRUIT STOCKS Price list now ready. We handle only a good grade of French Stocks and can give satisfaction.

MANNETTI ROSE Scarce. We have the French Stock for budding, and a selected grade of English stocks for florists use in grafting Tea Roses. The English stock is superior to the French for this purpose. Better rooted.

JAPANESE SNOWBALL (Viburnum plicatum). We are the introducers of this, and offer only the TRUE VARIETY. Another Viburnum, more easily propagated, is being offered as Japanese Snowball at a less price. Be sure to get the TRUE VARIETY.

Bechtel's Double Flowering Apple A fine supply of strong 3 feet, 3 to 4 feet, and 4 to 5 feet trees

THOMAS MEEHAN & SONS, Incorporated
Wholesale Department. DRESHERTOWN, MONT'G CO., PA.

Apple Grafts

WILL MAKE SPECIAL PRICE
ON EARLY ORDERS

LARGE SUPPLY OF
Grafting Stock
ON HAND

Write for prices on above, and under grades of APPLE SEEDLINGS

North Topeka Nurseries
A. L. BROOKE, PROPRIETOR
NORTH TOPEKA, KANSAS

When writing to Advertisers mention The National Nurseryman.

LARGEST GROWER IN AMERICA OF GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

Introducer of Campbell's Early Grape, Josselyn Gooseberry, Fay Currant.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

GEO. S. JOSSELYN
FREDONIA, N. Y.

APPLES 100,000 2 and 3-year-old, in large assortment, as fine as grows.

PEACH 185,000. 50 leading sorts from Southern Natural Pits grown on new land.

ASPARAGUS ROOTS 1,250,000 Fine, Strong 1 and 2-year plants. Palmetto, Barr's, Donald's and Giant Argenteuil.

These are our specialties for the trade and we invite correspondence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia Dewberries, and Large Norway Maples.

WEST JERSEY NURSERY CO.
STANTON B. COLE, - BRIDGETON, N. J.

Wanted, Six Salesmen

They must be experienced tree men, and willing to work. No "drunks" or "chubbers" need apply. Good wages or commission for right sort of men. Send your references with application. Address P. O. BOX 298, SALT LAKE CITY, UTAH.

CORRESPONDENCE desired with nurseryman of good character and experience who has ample means, and would undertake the establishment and management of a nursery in Marshall County, Northern Alabama. Address J. A. WYETH, 19 West 35th Street, NEW YORK CITY.

WANTED Two good all round men for general nursery work, and who understand thoroughly the growing of apple and peach trees. Must be first-class budders and grafters, perfectly sober and reliable. Steady employment. Address with reference,

VILLAGE NURSERIES, Harnedsville, Pa.
When writing to Advertisers mention The National Nurseryman.

GRAPE-CUTTINGS

We offer cuttings of Concord, Worden, Niagara, Moore's Early, Moore's Diamond, Delaware, Brighton, and many other varieties, well-made and in good condition. Also grape vines, currants and general nursery stock. Send list wanted for lowest prices. Will also contract to grow grape vines for Fall, 1903, delivery. **LEWIS ROESCH, FREDONIA, N. Y.**

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

600 ACRES
13 GREENHOUSES

50th YEAR

ESTABLISHED 1852
INCORPORATED 1890

W. E. Rossney, Pres. Sidney Tuttle, Vice-Pres.

Phoenix Nursery Co.

GROWERS OF

Fruit and Ornamental Trees, Shrubs, Evergreens, Roses, Climbing Vines, Hedge Plants, Small Fruits, Bulbs, Herbaceous Plants, Full Assortment Greenhouse Plants, etc.

Office and Greenhouses: N. Park St., opp. Wesleyan University.

Send list of wants
for prices.

BLOOMINGTON, ILLS.

First Class Stock of

SOFT MAPLE, 4 to 5 and 5 to 7 feet

WHITE ASH, 6 to 15 inch.

COLORADO BLUE SPRUCE, 18 to 24 inch.

Will be offered at very low prices by

THE GARDNER NURSERY CO., Osage, Iowa

ALBERTSON & HOBBS,

Nine miles west of Indianapolis.
Vandalia Railroad Line.

Bridgeport, Marion Co., Indiana. R. R. Switch into our Packing House.
"New Telephone" in Office.

350 ACRES OF TREES, &c.

FOR FALL 1902 AND SPRING 1903.

We will be prepared to furnish **APPLE, PEAR, PLUM, CHERRY**, and a complete general line of Nursery Stock, including a complete assortment of varieties—in **carload lots**, as we have coming on the largest supply we have ever had.

Also **SILVER, NORWAY and ROCK MAPLES, CAROLINA POPLARS, EVERGREENS, WEEPING TREES, SHRUBS, &c.**

The **POMONA CURRANT** (best of all).

APPLE SEEDLINGS—We expect to have a large and fine lot of seedlings.

PEACH PITS, &c. Also **IMPORTED SEEDLINGS.**

The best **NURSERY SPADES.**

EXCELSIOR (baled)—the **best packing material**, far better and cheaper than Moss. Ask Storrs & Harrison Co., and others who have been using it. Ask for prices per ton and in carload lots. Order early. Supply limited.

Trade List ready about September 1st. Come and see for yourself.

Shipments of **APPLE, PEAR, PLUM and CHERRY** made from either Bridgeport, Indiana, or Dansville, N. Y.

Shipments of **APPLE SEEDLINGS** from either Bridgeport, Indiana, or Topeka, Kansas.

WANTED

A practical man experienced in Nursery work, to take charge of our small nursery in Boston.

WHITING NURSERY COMPANY

Grove Hall, Rox. Dist.

BOSTON, MASS.

RAFFIA FIBER

Best Nurseryman's Grade

ALWAYS ON HAND
— APPLY TO —

August Rölker & Sons
NEW YORK,

31 Barclay St.

P. O. Box 752.

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE, FILS AINE Nurseryman

AT USSY, CALVADOS, FRANCE

Grower and shipper of Fruit Tree Stocks. Apple, Pear, Myrobolan, Mahaleb, Mazzard Cherry, Angers Quince, Etc. Ornamental Shrubs, Conifers, Roses, Manetti, Multiflora, Etc.; all well grown, good rooted and in excellent condition; prices low; safe packing. For quotations apply to my Sole Agents for the United States and Canada.

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay St.

WHOLESALE NURSERIES

We have a full line of stock for Nurserymen and Dealers, including APPLE GRAFTS PUT UP TO ORDER, PIECE OR WHOLE ROOTS, Thirty-five years in the business.

THE ONLY PRACTICAL BOX CLAMP IN USE—CHEAP

R. H. BLAIR & CO., Proprietors of LEE'S SUMMIT NURSERIES.
N. W. CORNER 11TH AND WALNUT STS., KANSAS CITY, MO.

Pioneer Nurseries Co. ROSSNEY PEAR

The best, handsomest, and most delicious of all pears. Ripens just after Bartlett, when there are no good pears in the market.

WHY NOT TRY IT?

For Colored Plate, Testimonials and Price, address the originators,
Eastern Agents PIONEER NURSERIES CO.
PHENIX NURSERY CO. SALT LAKE CITY
BLOOMINGTON, ILL. UTAH

We also grow a full line of BUDDED APPLES, PEARS, CHERRIES, PLUMS, PEACHES, ROSES, SHRUBS, ORNAMENTAL TREES, ETC.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

●———TO ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.
PULLMAN SLEEPING CARS.
WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,
C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

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Now Ready for Shipment

An Immense Stock of

APPLES, CHERRIES, FIGS,
GRAPES, CHESTNUTS, PAPER
SHELL PECANS, WALNUTS,
Ornamental Shade Trees and Shrubs, Field Grown
Roses, Retinosporas, Biotas, Cedrus Deodara and
other Conifers.

350,000 AMOOR RIVER PRIVET—Far superior to California Privet for an evergreen hedge.

200,000 CITRUS TRIFOLIATA—(Japan Hardy Lemon).
The coming defensive hedge plant.

250,000 PALMS—Arecas, Kentias, Latanias, Pandanus,
Phoenix.

CANNAS—We grow in large quantities.

ORANGES (Dwarf), KUMKWATS, LEMONS, LIMES,
and POMELOS. Grafted on Citrus, trifoliata, all pot
grown, fine for conservatory. Bearing sizes.

An Extensive Line of General Nursery Stock, all true
to name and healthy.

Over 400 Acres in Nursery. 60,000 Feet of Glass.

SEND FOR CATALOGUES.

P. J. Berckmans Co.

(INCORPORATED)

FRUITLAND NURSERIES,

Established 1856.

AUGUSTA, Ga.

THE Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to advertisers mention The National Nurseryman.

Evergreen AND Forest Tree Seedlings

ORNAMENTAL TREES;
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons
Waukegan Nurseries.
WAUKEGAN, - - ILL.

FOREST TREE SEEDLINGS

MAPLE
ASH
MULBERRY
CATALPA
BLACK LOCUST

All Grades
Nursery Grown
Carefully Graded

OSAGE ORANGE PLANTS

1 Year, No. 1.
1 Year, No. 2
2 Year, No. 1, 1-4 in. and
up, extra heavy.
2 Year, No. 2.

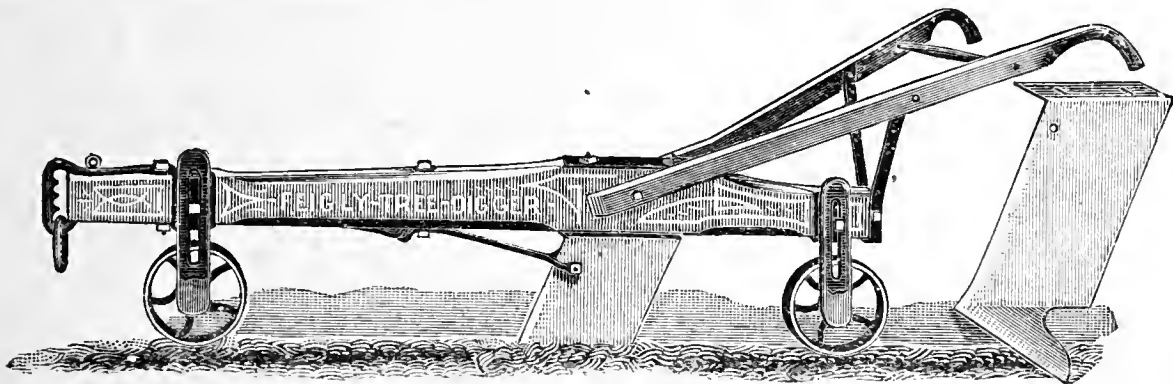
Large Stock.

APPLE GRAFTS. We please our customers in this line by grafting each order separately and making any style desired.

Apple Seedlings, Fruit Tree Stocks, Etc.
Apple, Cherry, Pear, Plum, Small Fruits.
Acres of Shade and Ornamental Trees.

Write for Winter Wholesale Price List of Grafts, Seedlings, Fruit Tree Stocks, Etc.

The Shenandoah Nurseries, Shenandoah, Iowa
D. S. LAKE, Proprietor



The Feigly Tree Digger

A Money-Saving Tool for Nurserymen

Manufactured by

D. FEIGLY, MEDWAY, Ohio
SOLE AGENT.

Send for Circular.

Apple

trees for sale.

C. F. MAC NAIR, DANVILLE, N. Y.



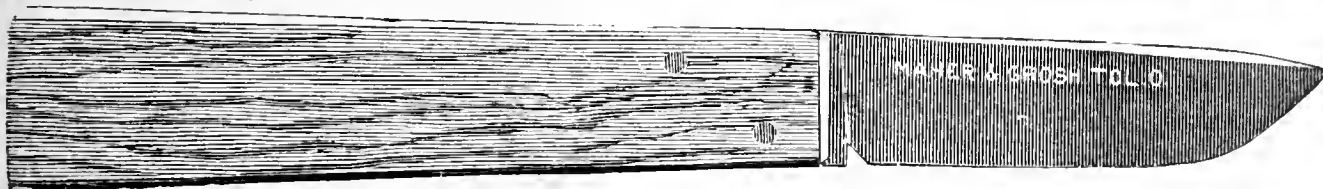
The Deming Field Sprayer

A model implement for acreage work on Potatoes, Strawberries, Small Nursery Stock, etc. Sprays rows of potatoes at once and adjusts for wide or narrow rows.

One Man Can Operate.

Can be attached to any barrel sprayer and fitted to any wagon. Fitted with famous Bordeaux or Deming-Vermorel nozzles. We fit everybody's needs in bucket, barrel, knapsack and other sprayers. Write for free spraying catalogue.

THE DEMING CO., Salem, Ohio.
Henion & Hubbard, Western Agts., Chicago, Ill.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2.25.
BUDDING KNIFE with folding blade, No. 98. By mail 35 cents; 6 for \$1.75.
GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.
SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

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Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.



Brown Brothers Co.,
ROCHESTER, N. Y.

HARRISON'S APPLES

We have an exeptional fine stock of

APPLE

A good collection of varieties that will run largely to 9-16 and $\frac{1}{2}$.

	$\frac{5}{8}$ 5 to 6 ft.	9-16 4 to 6 ft.	$\frac{1}{2}$ 4 to 5 ft.
Arkansas Black	300	300	300
American Golden Russett	1,500	1,500	1,500
Baldwin	1,500	1,500	1,500
Dutchess of Oldenberg	2,000	2,000	2,000
E. Strawberry	2,500	2,500	2,500
E. Harvest	4,000	4,000	4,000
Fallawater	2,000	2,000	2,000
Fall Rambo	1,000	1,000	1,000
Greenville	500	500	500
Gravenstein	300	300	300
Golden Sweet	500	500	500
Jonathan	4,000	4,000	4,000
King	2,000	2,000	2,000
Lankford Seedling	1,000	1,000	1,000
Limber Twigg	1,500	1,500	1,500
Maiden's Blush	6,000	4,000	6,000
Missouri Pippin	2,000	2,000	2,000
Northern Spy	5,000	5,000	5,000
N. W. Greening	4,000	4,000	4,000
Newton Hippien	500	500	500
Pewaukee	500	500	500
R. I. Greening	2,000	2,000	2,000
Rome Beauty	4,000	4,000	4,000
Red June	2,000	2,000	2,000
Rambo	200	200	200
Red Astrachan	3,000	3,000	3,000
Stark	4,000	4,000	4,000
Summer Rambo	2,000	2,000	2,000
Scott's Winter	1,000	1,000	1,000
Smith's Cider	2,000	2,000	2,000
Tallman Sweet	1,000	1,000	1,000
Winesape	5,000	5,000	5,000
Willow Twigg	1,000	1,000	1,000
Wealthy	4,000	4,000	4,000
York Stripe	1,500	1,500	1,500
Yellow Transparent	5,000	5,000	5,000
Yellow Bellflower	3,000	3,000	3,000

KIEFFER PEAR

2 to 3 ft. 3 to 4 ft. 4 to 5 ft.

First class, 5 to 7 ft., $\frac{5}{8}$ to $\frac{3}{4}$.

First class, 4 to 6 ft., $\frac{1}{2}$ to $\frac{3}{4}$.

Dwarfs, Dutchess, one year, 4 to 5 ft.

Bar-Seckle,	Howell,	Manning'sElizabeth,
Bartlett,	Hoosac,	Seckle,
B. De Anjou,	Lawrence,	Sheldon,
Belle Lucrative,	Lincoln Coreless,	Tyson,
Clapp's Favorite,	LeConte'	Vermont Beauty,
Dutchess,	Idaho,	Vicar,
Flemish Beauty,	Krull,	Wilder,
Garber,	Lawson.	

ASPARAGUS

TWO YEAR

Columbian Mam. White, Donald's Elmira, Palmetto,
Barr's Mammoth, Conover's Colossal, Grant Argentine.

PEACH GOOD

LIST VARIETIES

We have probably the largest block of Peach Trees in the United States, grown on Virgin Soil from Natural Seed and guaranteed free from any taint of disease. No Scale has ever been found on stock grown by us.

PEACH

One year, $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 6 ft., branched, extra.

One year, 9-16 to $\frac{5}{8}$, 4 to 6 ft., branched, No. 1.

One year, $\frac{1}{2}$ to 9-16, 4 to 5 ft., branched.

One year, $\frac{3}{8}$ to $\frac{1}{2}$, 3 to 4 ft., more or less branched.

One year, 2 to 3 ft., partly branched.

One year, extra, $\frac{3}{4}$ to 1 inch, 5 to 8 ft., branched.

Strawberry Plants for Spring.

Send your List of Wants To-day.

J. G. HARRISON & SONS
BERLIN, MARYLAND



February, 1903

Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Stand at
the Head

In Acres of Land and Greenhouses
In Storage Cellars and Packing Houses
In Amount of Stock handled
In Variety of Stock grown



Fruit and Ornamental
Trees, Nut Trees
Small Fruits, Grape
Vines, Roses, Shrubs
Climbing Vines, Bulbs
Hardy Herbaceous
and Greenhouse Plants



Catalogues and Price Lists free. Personal inspection cordially invited.
Pleased to quote prices on your list of wants—

The Storrs & Harrison Company

NURSEYMEN, FLORISTS and SEEDSMEN

Painesville, Ohio

ORIENTAL PLANES
SUGAR MAPLES
== PIN OAKS ==
WIER'S MAPLES

ALL SIZES.

Handsome Straight Trees

Also an unusually large and complete
assortment of General Nursery Stock.
All well grown and best quality.
Wholesale Catalogue on request.

ELLWANGER & BARRY

Nurserymen—Horticulturists,
ROCHESTER, N. Y.

Mt. Hope Nurseries.

Established 1840.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

== HAVE TO OFFER ==

APPLE, CHERRY, PEACH

(2 and 3 yr.) (1 and 2 yr.)

PLUM AND APRICOT

KEIFFER PEAR

(1 and 2 yr.)

SHADE TREES

Elm, Ash, Box Elder

Maple, Weeping Mulberry

APPLE SEEDLING

JAPAN PEAR SEEDLING

MAHALEB SEEDLING FOREST TREE SEEDLING

Osage, Elm, Catalpa, Maple, Honey Locust.

GRAPE VINES

BECHTEL'S FLOWERING CRAB

When writing to Advertisers mention The National Nurseryman

THERE ARE BARGAINS

in every issue of our monthly publication

**THE HORTICULTURAL
TRADE BULLETIN**

If you have not received it write for a copy to-day.
It will be sent free to any member of the trade on appli-
cation.

Orders are coming in very rapidly, but we can still
offer in considerable assortment, splendid stocks of

Roses, Clematis, Climbing Vines,

Flowering Shrubs, Ornamental Trees,

Conifers, Herbaceous Plants, Florists' Stock,

Standard Pears,
Including Bartlett.

Dwarf Pears,

Cherries,

Peaches.

Send at once for the "Bulletin"; use printed station-
ery to show you belong to the trade. Not sent to any
one outside the trade.

Jackson & Perkins Co., NEWARK,
New York.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery
Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Apple Seedlings, and
Mahaleb, Pear Seed-
lings, Forest Tree
Seedlings. Apple
Scions*

A good assortment of Grape Vines, Gooseber-
ries and Currants. Also Ornamental Trees
and Shrubs

When writing to Advertisers mention The National Nurseryman.

300 BUSHELS COW PEAS

Pure Red Ripper Variety—best for soil, hay and seed. 30,000 assorted Peach Trees for Spring Shipment. Write for Prices.

J. Van Lindley Nursery Co., Pomona, N. C.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,

509 Arch Street, PHILADELPHIA, Pa.

THE FOLLOWING FIRST-CLASS APPLE TREES

3-4 and up, offered for Spring, 1903:

500 each Sweet Bough, Ramsdell's Sweet (Red Fall), Price's Sweet (Red Winter), and Tallman Sweet. 1000 each Yellow Transparent and N. W. Greening; also leading sorts of Crab Apple Trees in moderate numbers. Prices, etc., on application. Address

O. K. GERRISH, Lakeville, Mass.

Experienced Nurseryman and Horticulturist

would like to establish Western Agency of first-class Nursery in St. Louis. Splendid opportunity for advertisement at World's Fair. Will invest capital. Address

NURSEYMAN, care National Nurseryman.

100,000

EXTRA
FANCY

BARTLETT PEARS

FOR SALE. We are prepared to quote an extremely low figure on this stock. Address:

FANCHER CREEK NURSERIES, (INC.)
FRESNO, CALIFORNIA.

BLEVINS BROS. WHOLE ROOT NURSERY

The largest nurseries in Northwest Arkansas. We make the APPLE TREE a specialty. Our stock is guaranteed true to name. Write to us for prices.

Main Office

BENTONVILLE, ARKANSAS

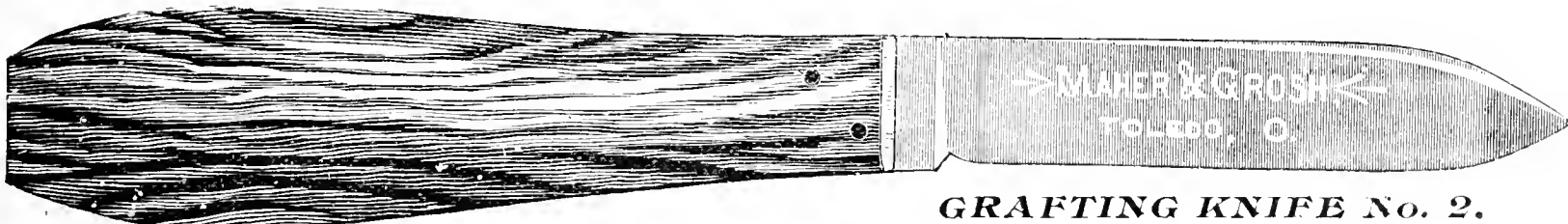
SURPLUS STOCK FOR SPRING, 1903.

Poplars—Lombardy and Carolina, fine, 10 to 12 feet. Norway Maples—1 inch cal. to 4 inch. Osage Orange—2 years, cheap in 10 000 lots. California Privet—1 year, good, and 3 years, strong, 5 to 6 ft.

JOSIAH A. ROBERTS, MALVERN, PA.

WANTED

AN EXPERIENCED FOREMAN, that can take charge of the office and handle agents to good advantage. Will let the right man have an interest in the business on very liberal terms. One of the best locations in the West. None but hustlers need apply. Write for full particulars to X. Y. Z., care National Nurseryman.



GRAFTING KNIFE No. 2.

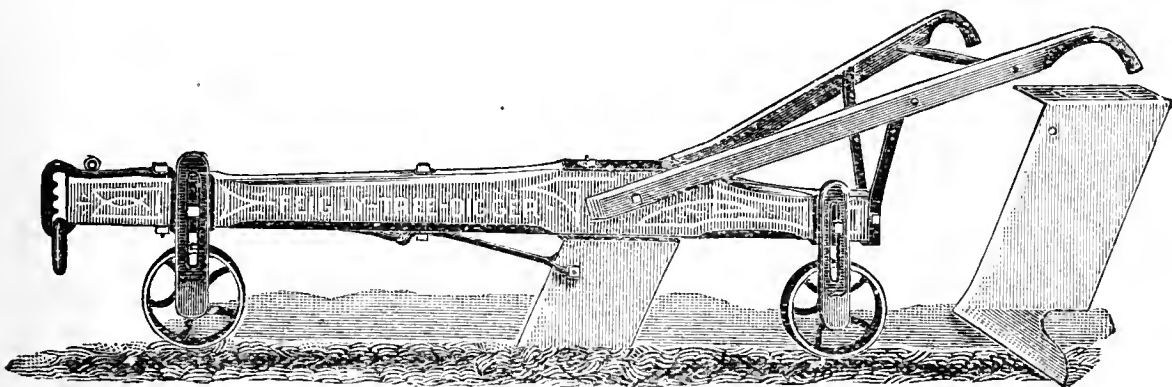
Cut is exact size of our Grafting Knife No. 2. Sample, by mail, 20 cents. 6 for \$1.00. No. 1 has a "sheep foot" blade and is larger. Sample, by mail, 25 cents. 5 for \$1.00. Budding Knife, riveted in handle, 25 cts. 12 for \$2.25, postpaid. Pocket Budder, 35 cents. Pruning Knife, riveted in handle, 50 cents. 5 for \$2, postpaid. Pocket Pruner, 75 cents.

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

Nurserymen's KNIVES

Hand forged. Razor steel. Warranted. Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

Send for 12-Page Special Nursery Catalogue



The Feigly Tree Digger

A Money-Saving Tool for Nurserymen

Manufactured by

D. FEIGLY, MEDWAY, Ohio

SOLE AGENT.

Send for Circular.

WIRELESS TELEGRAPHY

appears to be a pronounced success, but LABELLESS TREES are an innovation that should not be considered, for the present season at least. Early orders by mail will conduce to your piece of mind later in the season.

BENJAMIN CHASE,

DERRY, N. H.

When writing to Advertisers mention The National Nurseryman.

GRAPE CUTTINGS

We offer cuttings of Concord, Worden, Niagara, Moore's Early, Moore's Diamond, Delaware, Brighton, and many other varieties, well made and in good condition. Also Grape Vines, Currants, and general nursery stock. Send list wanted for lowest prices. Will also contract to grow Grape Vines for fall, 1903, delivery.

LEWIS ROESCH, - - - FREDONIA, N. Y.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

600 ACRES
13 GREENHOUSES

50th YEAR

ESTABLISHED 1852
INCORPORATED 1890

W. E. Rossney, Pres. Sidney Tuttle, Vice-Pres.

Phoenix Nursery Co.

GROWERS OF

Fruit and Ornamental Trees, Shrubs, Evergreens, Roses, Climbing Vines, Hedge Plants, Small Fruits, Bulbs, Herbaceous Plants, Full Assortment Greenhouse Plants, etc.

Office and Greenhouses: N. Park St., opp. Wesleyan University.

Send list of wants
for prices.

BLOOMINGTON, ILLS.

First Class Stock of

SOFT MAPLE, 4 to 5 and 5 to 7 feet

WHITE ASH, 6 to 15 inch.

COLORADO BLUE SPRUCE, 18 to 24 inch.

Will be offered at very low prices by

THE GARDNER NURSERY CO., Osage, Iowa

ALBERTSON & HOBBS,

Nine miles west of Indianapolis.
Vandalia Railroad Line.

Bridgeport, Marion Co., Indiana. R. R. Switch into our Packing House.
"New Telephone" in Office.

350 ACRES OF TREES, &c.

FOR FALL 1902 AND SPRING 1903.

We will be prepared to furnish **APPLE, PEAR, PLUM, CHERRY**, and a complete general line of Nursery Stock, including a complete assortment of varieties—in carload lots, as we have coming on the largest supply we have ever had.

Also **SILVER, NORWAY and ROCK MAPLES, CAROLINA POPLARS, EVERGREENS, WEEPING TREES, SHRUBS, &c.**

The **POMONA CURRANT** (best of all).

APPLE SEEDLINGS—We expect to have a large and fine lot of seedlings.

PEACH PITS, &c. Also **IMPORTED SEEDLINGS.**

The **best NURSERY SPADES.**

EXCELSIOR (baled)—the **best packing material**, far better and cheaper than Moss. Ask Storrs & Harrison Co., and others who have been using it. Ask for prices per ton and in carload lots. Order early. Supply limited.

Trade List ready about September 1st. Come and see for yourself.

Shipments of **APPLE, PEAR, PLUM and CHERRY** made from either Bridgeport, Indiana, or Dansville, N. Y.

Shipments of **APPLE SEEDLINGS** from either Bridgeport, Indiana, or Topeka, Kansas.



Strawberry Plants and Seed Potatoes.

How to Grow Biggest Crops.
Finest Fruit.

DESCRIPTIVE CATALOGUE FREE.
Send for it. Bargains in New
Varieties.

FLANSBURGH & PEIRSON,
Leslie, Mich.

RAFFIA FIBER

Best Nurseryman's Grade

ALWAYS ON HAND

APPLY TO

August Rölker & Sons
NEW YORK.

31 Barclay St.

P. O. Box 752.

When writing to Advertisers mention The National Nurseryman.

MYROBOLAN PLUM SEED New crop ready for delivery. You get the best results by planting early. Samples on application.

MAZZARD CHERRY SEED READY NOW.

French Crab and Pear Seed Scarce. Prices later. Order what you require now, and remember that last year when the crop was scarce we delivered our orders in full.

FRUIT STOCKS Price list now ready. We handle only a good grade of French Stocks and can give satisfaction.

MANNETTI ROSE Scarce. We have the French Stock for budding, and a selected grade of English stocks for florists use in grafting Tea Roses. The English stock is superior to the French for this purpose. Better rooted.

JAPANESE SNOWBALL (Viburnum plicatum). We are the introducers of this, and offer only the TRUE VARIETY. Another Viburnum, more easily propagated, is being offered as Japanese Snowball at a less price. Be sure to get the TRUE VARIETY.

Bechtel's Double Flowering Apple A fine supply of strong 3 feet, 3 to 4 feet, and 4 to 5 feet trees.

THOMAS MEEHAN & SONS, Incorporated
Wholesale Department. DRESHERTOWN, MONT'G CO., PA.

Apple Grafts

WILL MAKE SPECIAL PRICE
ON EARLY ORDERS

LARGE SUPPLY OF
Grafting Stock
ON HAND

Write for prices on above, and under grades of **APPLE SEEDLINGS**

North Topeka Nurseries
A. L. BROOKE, PROPRIETOR
NORTH TOPEKA KANSAS

When writing to Advertisers mention The National Nurseryman.

LARGEST GROWER IN AMERICA OF GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

Introducer of Campbell's Early Grape, Josselyn Gooseberry, Fay Currant.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

GEO. S. JOSSELYN
FREDONIA, N. Y.

APPLES 100,000 2 and 3-year-old, in large assortment, as fine as grows.

PEACH 185,000. 50 leading sorts from Southern Natural Pits grown on new land.

ASPARAGUS ROOTS 1,250,000 Fine, Strong 1 and 2-year plants. Palmetto, Barr's, Donald's and Giant Argenteuil.

These are our specialties for the trade and we invite correspondence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia Dewberries, and Large Norway Maples

WEST JERSEY NURSERY CO.

STANTON B. COLE, - BRIDGETON, N. J.

POTATOES \$2.50
a Bbl.

Largest growers of Seed Potatoes in America. The "Rural New Yorker" gives Salzer's Early Wisconsin a yield of 742 bu. per a. Prices dirt cheap. Mammoth seed book and sample of Teoslate, Speltz, Mucronal Wheat, 68 bu. per a., Giant Clover, etc., upon receipt of 10c postage. JOHN A. SALZER SEED CO., La Crosse, Wis.

CORRESPONDENCE desired with nurseryman of good character and experience who has ample means, and would undertake the establishment and management of a nursery in Marshall County, Northern Alabama. Address J. A. WYETH, 19 West 35th Street, NEW YORK CITY.

WANTED

Two good all round men for general nursery work, and who understand thoroughly the growing of apple and peach trees. Must be first-class budders and grafters, perfectly sober and reliable. Steady employment. Address with reference,

VILLAGE NURSERIES, Harnedsville, Pa.
When writing to Advertisers mention The National Nurseryman.

Apple

trees for sale.

C. F. MAC NAIR, DANSVILLE, N. Y.

Pioneer Nurseries Company

BOX 1406,

SALT LAKE CITY, - UTAH.

OFFERS FOR SPRING, 1903, SHIPMENT:

STANDARD APPLES, including BEN DAVIS, GANO, Etc.

STANDARD PEARS, including a fine lot of BARTLETT. We are also headquarters for the ROSSNEY PEAR, introduced by us, the best of its season.

PLUMS and PRUNES, both on plum and peach stocks. Also a large assortment of GENERAL NURSERY STOCK.

HILL'S EVERGREEN NURSERIES

intend to keep at the head for hardy, nursery grown trees for the nursery trade. A general assortment of seedling varieties, all sizes. A large supply of Douglas, Hemlock, and White Spruces. A grand lot of the famous Rocky Mountain Blue Spruce and Concolor. White, Scotch, Austrian and Dwarf Mountain Pines. Arborvites, etc. Over two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

AN ACQUISITION

HAYMAKER THE NEW RASPBERRY

It is a step in advance of anything yet introduced. Do not fail to send for circular. Plant 1,000 at once and have a stock of plants for sale. It is a winner. Special inducements to Nurserymen. Our usual stock of

EVERYTHING IN SMALL FRUIT PLANTS

Strawberries, Raspberries, Blackberries, Dewberries, Currants and Gooseberries.

200,000 ASPARAGUS ROOTS

Two year old; price very low. Also Rhubarb, Horse Radish, Cuttings, etc. Send for our wholesale list.

W. N. SCARFF, NEW CARLISLE, O.

RAFFIA Best grades of Madagascar Raffia for Nurserymen.

Orders for bale (225lbs.), or more from stock or for direct import. Write for prices.

McHUTCHISON & CO., 218 Fulton St., NEW YORK.

When writing to Advertisers mention The National Nurseryman.

Evergreen

AND

Forest Tree Seedlings

ORNAMENTAL TREES,
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons

Waukegan Nurseries

WAUKEGAN, - - ILL.

ASPARAGUS, 150,000 Fine Two year Five Varieties

Crab Apples, general assortment, two year.

Sweet Cherries, 2 year.

3000 Clematis *Paniculata*, heavy, two year, cheap.

5000 California Privet Hedge.

Norway and Colorado Blue Spruce and American

Arbor Vitae, various sizes, extra quality.

Flowering Shrubs, best grade, general assortment, cheap.

Stock grown at Geneva, N. Y.

WHITING NURSERY CO.

Boston, Mass.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

FOR SPRING TRADE

20,000 PEACH, clean, nice trees, 2 to 3, 3 to 4, and 4 to 6 feet. Triumph, Japan Blood, Rivers, St. John, Nitu Rose, Crawford Early, Foster, Carman, Mary Choice, Old Mixon, Great Eastern and Brandywine. 10 000 PLUM, 3 to 5 ft., Gonzales, Sixweeks, Red May, America, Chalco, Apple, and other best hybrids. 5,000 Japan Walnut—Sieboldii, 1 and 2 yrs. 10,000 Citrons—Trifoliata. 2,000 Stayman Winesap Apple, 2 years. Prices Low.

J. W. KERR,

Eastern Shore Nurseries,

DENTON, MARYLAND.

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and grove. For fence posts, telegraph and telephone poles, most lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL.

When writing to Advertisers mention The National Nurseryman.

Albaugh Nursery AND ORCHARD CO.

IN SURPLUS, in cellars in fine order:

PEACHES

75,000 first class, one-third Elberta.

APPLES

15,000, $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, leading varieties.

PEARS

5,000, 11-16 and up, first-class. Bartlett, Seckle, Kieffer, etc.

CHERRY

5,000, 2 yrs. Sour varieties, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

PLUM

1000, on plum, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

February 1st, 1903 - First come, first served. Prices fair.

Albaugh Nursery & Orchard Co. PHONETON, O.

Inspector's certificate on all shipments.

FOREST TREE SEEDLINGS

MAPLE

ASH

MULBERRY

CATALPA

BLACK LOCUST

All Grades

Nursery Grown

Carefully Graded

OSAGE ORANGE PLANTS

1 Year, No. 1.

1 Year, No. 2.

2 Year, No. 1, 1-4 in. and up, extra heavy.

2 Year, No. 2.

Large Stock.

APPLE GRAFTS. We please our customers in this line by grafting each order separately and making any style desired.

Apple Seedlings, Fruit Tree Stocks, Etc.
Apple, Cherry, Pear, Plum, Small Fruits.
Acres of Shade and Ornamental Trees.

Write for Winter Wholesale Price List of Grafts, Seedlings, Fruit Tree Stocks, Etc.

The Shenandoah Nurseries, Shenandoah, Iowa
D. S. LAKE, Proprietor

Fairmount Nurseries

GEO. PETERS & CO., Proprietors,
TROY, OHIO.

Offer for Spring, 1903, trade as follows:

Apple Cherry Gooseberries

Pear Plum Currants

Peach Apricot Grape

Quince Azaleas Tree Roses

Rhododendrons & Pyramidal Arbor Vitae

A GOOD SUPPLY OF BARTLETT AND KIEFFER
PEARS. Special Prices on Large Orders.

Apple, Pear, Plum and Forest Tree Seedlings

Write, or call on us for prices.

When writing to Advertisers mention The National Nurseryman.

Willis Nurseries

OTTAWA, = KANSAS.

OFFERS:

APPLES Ben Davis, Jenaton, Smith's Cider, Grimes' Golden, Wealthy, Walbridge, York Imperial, North Western Greening, Tallman Sweet, Red Astrachan, Sweet June, Yellow Transparent, and others.

PEARS Kieffer, Bartlett, Flemish Beauty, Clapp's Favorite, Garber, and others.

QUINCE Orange and Champion.

DWARF PEAR Duchess, Kieffer, Flemish Beauty, Lawson, and others.

CHERRIES Early Richmond, Eng. Morello, Montmorency, May Duke, Lieb, Ostheim, Black Tartarian, and others.

PEACH Crawford's Early, Fitzgerald, Elberta, Crosby, Health Cling, Smock, Salway, and others.

GRAPES Concord, Moore's Early, Worden, Niagara, and others.

RASPBERRIES Kansas, Gregg and Cardinal.

ROSES Crimson Rambler, Gen. Jacqueminot, and others.

CLEMATIS Jackmanii, Henryii, and others.

All choice No. 1 stock. We solicit a share of your patronage.

A. WILLIS, - Prop.

ELMIRE SEBIRE, FILS AINE Nurseryman

AT USSY, CALVADOS, FRANCE

Grower and shipper of Fruit Tree Stocks. Apple, Pear, Myroblan, Mahaleb, Mazzard Cherry, Angers Quince, Etc. Ornamental Shrubs, Conifers, Roses, Manetti, Multiflora, Etc.; all well grown, good rooted and in excellent condition; prices low; safe packing. For quotations apply to my Sole Agents for the United States and Canada.

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay St.

WHOLESALE NURSERIES

We have a full line of stock for Nurserymen and Dealers, including APPLE GRAFTS PUT UP TO ORDER, PIECE OR WHOLE ROOTS, Thirty-five years in the business.

THE ONLY PRACTICAL BOX CLAMP IN USE—CHEAP

R. H. BLAIR & CO., Proprietors of LEE'S SUMMIT NURSERIES.

N. W. CORNER 11TH AND WALNUT STS., KANSAS CITY, MO.

SURPLUS

OF APPLE, PEACH, NORWAY MAPLE, IRISH JUNIPER, ABUNDANCE AND HALE PLUM.

C. L. Longsdorf, Floradale, Pa.

WANTED to commence April 1st, a young or middle aged man of experience, as working foreman in our nurseries. First-class references as to ability and character required. Situation permanent.

THE WEST SIDE NURSERIES, Worcester, Mass.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

TO ST. LOUIS, KANSAS CITY AND OMAHA.

FREE RECLINING CHAIR CARS.
PULLMAN SLEEPING CARS.
WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,
ST. LOUIS, MO.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention the National Nurseryman.

Over 400 Acres in Nursery. 60,000 Feet of Glass.

SPECIAL LOW PRICES

Are offered to clean up some blocks of

CHERRIES, 4-5 ft., 3 1/2 ft., and 2 1/2 3 ft. NECTARINES, 4 1/2 ft. GRAPES, heavy, 2 yrs. ENGLISH WALNUTS, 18 24 in. CITRUS TRIFOLIATA. (Best defensive hedge plant).

In addition to the above we have a fine lot of

SHRUBS, CONIFERS, DECIDUOUS SHRUBS AND TREES. CLEMATIS APIIFOLIA.

ORANGES, LEMONS, LIMES, POMELOS. KUM KWATS (Grafted upon Citrus Trifoliata), nice bushy plants, 1-4 ft. All fruiting size and pot grown.

CANNAS—dry roots, best sorts. CLIMBING CLOTH-ILDE-SOUPERT-ROSE—field grown. RUBBERS, 10-12 in. (From top cuttings.)

250,000 PALMS

KENTIAS, LATANIAS, PHOENIX, PANDANUS and CHAMAEROPS. All in fine condition.

WRITE FOR PRICES.

P. J. Berckmans Co.

(INCORPORATED)

FRUITLAND NURSERIES,

Established 1856.

AUGUSTA, Ga.

THE Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut, Norway and Sugar Maple, Lindens, Poplars, Magnolias, EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA, NEW YORK.

When writing to advertisers mention The National Nurseryman.

HARDY PERENNIAL PLANTS

We are headquarters for Hardy Perennial plants, and not only handle the standard and popular varieties in large quantities, but can also supply a large line of sorts not generally listed, for which it will pay you to look over our catalogues, both wholesale and retail, copies of which will be sent to you free on application if you do not already receive same.

SPECIALTIES FOR SPRING, 1903

Hardy Asters, in great variety.
 Anemone Japonica. All leading sorts.
 Gaillardia Grandiflora. pot grown.
 Hardy Ornamental Grasses.
 Hemerocalis Florham. A grand new variety.
 Hypericum Moserianum. Strong field grown plants.
 Japanese Iris. 40,000 plants in stock.
 Herbaceous Paeonias. All the popular varieties.
 Oriental and Iceland Poppies.
 Hardy Garden Pinks. A choice assortment.
 Hardy Phlox, 75,000 plants in stock.
 Phlox Subulata, (Moss Pink) in variety.
 Stokesia Cyanea, the great Centaurea Aster.
 Tritoma Pfitzeri. The new everblooming variety.
 Clematis Paniculata, one, two and three year old.
 Also many other desirable hardy plants and vines.

HENRY A. DREER,
 PHILADELPHIA, PA.

KNOX NURSERIES 1851 1903

WE OFFER FOR SPRING

the following well grown, thrifty stock. We shall be pleased to quote price on application.

APPLE. 2 and 3 year, mostly $\frac{3}{4}$ and up. Ben Davis, Grimes, Ingram, Jonathan, Y. Imperial, Akin, N. W. Greening, Wine Sap, etc.

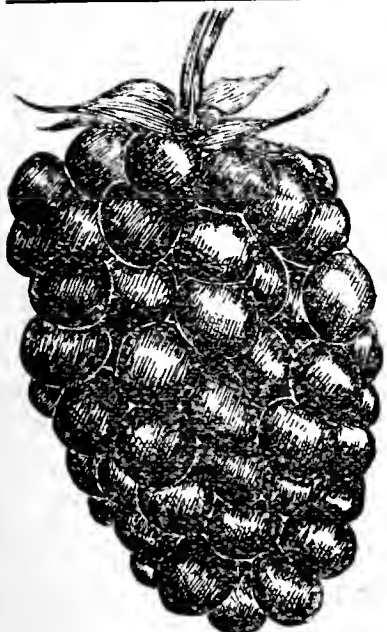
CHERRY. 1 year, $\frac{3}{4}$ and all up. Fine stock of elegant trees.

PEACH. 9 16 and up, and some small grades. Elberta and leading sorts.

KANSAS RASPBERRY TIPS.

SNYDER BLACKBERRIES. Sucker plants.

H. M. SIMPSON & SONS,
 VINCENNES, IND.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
 BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

W. T. HOOD & CO., OLD DOMINION NURSERIES.

RICHMOND, VA.

OFFER FOR FALL 1902 AND SPRING 1903

First class Peach, Apricots, fine lot of Sugar Maples, Silver, Norway and Weirs Cut Leaf Maples, Linden, American Linden, and Carolina Poplars. 100,000 California Privet, one and two year; 20,000 Citrus Tifolia, two and three year; and 50,000 Silver Maple Seedlings.

Samples and prices on application.

W. T. HOOD & CO., OLD DOMINION NURSERIES,
 RICHMOND, VA.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
 Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

The Snow Hill Nurseries,

WM. M. PETERS' SONS,

R. F. D. Route.

SNOW HILL, MARYLAND.

Having practically sold the bulk of our fruit trees, we offer for delivery Spring, 1903: Three millions of well rooted Strawberry Plants, all from plants set the past Spring, of the following varieties:

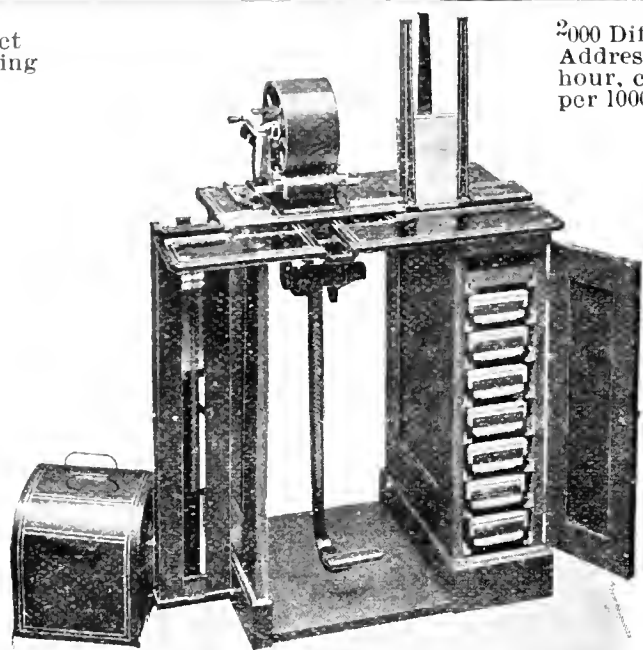
Auto	Hoffman	Ruby
Bubach No. 5	Jessie	Sample
Bismark	Jersey Markett	Senator Dunlap
Brandywine	Johnson's Early	Sunrise
Blonde	Kansas	Sharpless
Crescent	Lady Thompson	Saunders
Cyclone	Marshall	Shepard
Duffs	Mitchell's Early	Seaford
Drowth King	Nickomer	Tubbs
Elnor	New York	Tillman's Favorite
Enormous	Ocean City	Tennessee
Gandy	Parker Earl	Up-to-Date
Glenmary	Parson's Beauty	Wolverton
Gladstone	Pride of Cumberland	Warfield
Greenville	Ridgeway	

Also a fine lot of California Privet, and 500,000 Asparagus Roots, 2 year, in the following varieties: Conover Colossal, Barr's Mammoth, Palmeto. Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

Elliott Addressing Machine

A Perfect Addressing System.



2000 Different Addresses per hour, cost 5c. per 1000.

Addresses envelopes or wrappers of any size, cards, statements, shipping tags, time cards, pay envelopes, in fact will print name in any desired location on whatever matter is to be addressed.

Same machine uses stencil cards having one, two, three, four or five lines. Changes in mailing list made in office of customer without delay or expense, or we cut stencil cards for 1 cent each.

An Addressing Machine makes a mailing list valuable because promptly available. Saves time when time is important.

Adopted by representative nurserymen, etc., including
Thos. Meehan & Sons, Dreshertown, Pa.
Peter Henderson & Co. New York, N. Y.
Harlan P. Kelsey, Boston, Mass. Jewell Nursery Co., Lake City, Minn.
Stark Bros. Orchards and Nursery Co., Louisiana, Mo., etc., etc.

Full and detailed Catalogue mailed upon request.

ELLIOTT ADDRESSING MACHINE CO.
Home Office, 99 Purchase St., Boston, Mass.

A large stock of Clematis, leading varieties.
Not Quite a Million but an Immense Quantity.

Write for Prices.

P. W. Butler, East Penfield, N. Y.

E. T. DICKINSON, Chatenay Seine, France.
GROWER AND EXPORTER,

HAS TO OFFER FRENCH NURSERY STOCKS, DUTCH BULBS, GLADIOLI, &c.

Fruit Tree Seedlings and Ornamentals. Pear, Apple, Plum and Cherry and Angers Quince Cuttings. All grown specially for the American trade. Pear and Crab Apple Seed. The most complete assortment of ORNAMENTAL STOCKS, TREES AND SHRUBS. Orders solicited and booked now at low rates.

E. T. DICKINSON, - - - 1 Broadway, New York.

GRAPE VINES

AND

Guriant Plants

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK
FREDONIA, N. Y.

CHARLES DETRICHE, Senior,
ANGERS, FRANCE,

Grower and Exporter of Fruit Tree Stocks, Forest Trees and Ornamentals.

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriche would be glad to receive any horticultural catalogues or papers.

WE have to offer for the Spring Trade, Wealthy Apple, strong 7 feet. Early Harvest Pear, 7 feet. Marlboro Raspberry Plants of the best grade. Transplanted Evergreens, one to two feet and two to three feet. Seedlings of White Spruce and American Larch, 8 to 20 inches. Always in stock, our Dry Baled Sphagnum Moss both in Burlaped and Wired Bales of the best quality.

Z. K. JEWETT & CO., SPARTA, WISCONSIN.

GRAPE ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.
QUALITY UNSURPASSED.
A fine stock of Campbell's Early.
Catalogue and Price List Free.
Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

FOR SPRING 1903

Send Us Your Want List.

We have 150,000 Peach, including 25,000 Elberta; 250,000 Apple; also Pear, Cherry, Plum, and a general assortment of other stock. Asparagus, 1 and 2 year. Privet, extra fine, 1 year. Several thousand extra large Shade Trees. SURPLUS LIST NOW READY. We cellar no stock. All fresh from the nursery rows.

FRANKLIN DAVIS NURSERY CO.,
BALTIMORE, MARYLAND.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries

W. C. REED, Proprietor

OFFER FOR SPRING, 1903 APPLE, PEACH, CHERRY

Also nice lot of Standard and Dwarf Pear
Plums. Cut Leaved Maple, Elms
Hydrangeas, California Privet, Etc.

Snyder and E. Harvest Blackberry
Plants.

100000 Catalpa (Speciosa) Seedlings.

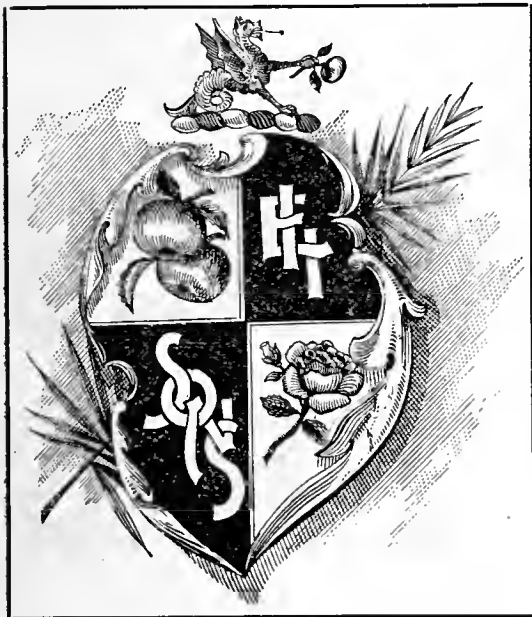
Our one year Cherry are very fine and
extra heavy.

Send us a list of your wants or come and see for yourself.

VINCENNES

INDIANA

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

CHOICE STOCK

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

For Spring of 1903 we offer one of the largest and most
complete lines of General Nursery Stock on the Market.

Fine Stock . . **APPLE** . . Good Assortment

LARGE STOCK OF

Cherry, Plum, Peach, Pear, Grape Vines, Small Fruits,
Shade and Ornamental Trees, Shrubs, Vines, Etc.
Apple Seedlings, Fruit Tree Stocks, Forest Tree Seedlings.

Apple Grafts Made to Order.

Good Supply of H. P. and CRIMSON RAMBLER ROSES.

Correspondence and inspection invited.

Mount Arbor Nurseries

E. S. WELCH, Proprietor.

SHENANDOAH, IOWA.

ESTABLISHED 1875.

Located in Southwest Iowa, 50 miles from Omaha.
Railroad Side Track full length of Packing Grounds.

New Haven Nurseries

NEW HAVEN, MO.

—SURPLUS—
APPLE, PEACH
PEAR, PLUM

Strictly high grade. Over 200,000 Elberta
Correspondence and personal inspection of
stock is invited. Location, 67 miles west of
St. Louis, on main line of the Mo. Pac. R. R.
Missouri River uplands.

New Haven Nurseries

NEW HAVEN, MO.

When writing to Advertisers mention The National Nurseryman.

**STARK
BROS.**

LOUISIANA, MO.—Stock in cellars—prices on request. Sample bds. (10's) at Trade prices. Grape Vines, Currants, Gooseb'y, Raspb'y, Blackb'y; Abundance, New American, Downing and Russian Mulberry; Chestnut, Hickory, Persimmon; Box Elder 1 to 2½ inches, Weir's Maple; Root Grafts; Scions, Seedlings, Etc., in good supply. Apple are both Budded and Grafted; we also have a very large supply of ONE-YEAR Budded and Grafted.

APPLE, 2-yr., 3, 5, 1:

320 Am. S. Pearm'n
365 Alexander
1,910 Akin
3,820 Ark. Beauty
8,780 Ark. Black
760 Aut. Strawb'y
47,990 Baldwin
810 Bailey Sw't
340 Banana, W.
1,660 Bellflower
88,268 Ben Davis
3,563 Benoni
690 Bismarck
2,931 Charlamof
950 Clayton
2,520 Chenango Strw.
12,360 Coffelt
720 Domine
12,714 Duchess
7,409 Early Harvest
3,263 Early Melon
11,115 Early Ripe
613 Early Strawb'y
410 Esopus Spitz.
1,991 Fallwater
1,225 Fall Pippin
2,805 Fameuse
1,838 Fanny
430 Fulton
29,620 Gano
13,340 Geneton, R.
23,138 Givens
1,175 Gideon
385 Gol. Russet
953 Gol. Sweet
1,154 Greenville
1,720 Gravenstein
147,877 Grimes Golden
938 Haas
5,920 Hibernal
2,260 Horse
6,475 Hubbardston
4,050 Huntsman Fav.
1,377 Ideal
56,906 Ingram
1,880 Iowa Blush
9,820 Jeffers
118,355 Jonathan
10,280 Kinnaird Ch.
7,660 King
430 Lady Sweet
790 Lansingburg
970 Lawver
8,322 L. Raspberry
2,220 Limbertwig
1,160 Longfield
130 Lowell
11,861 M. Blush
27,762 M. B. Twig
1,600 Mann
980 McAfee, L. S. Pr
1,559 McIntosh Red
1,600 McMahon Wh.
1,225 Minkler
17,068 Mo. Pippin
380 Newtown Pip'n
956 North Star
19,959 Northern Spy
21,197 N. W. Greening
859 Ohio Nonpareil
909 Ontario
3,770 Pewaukee
280 Pound Sweet
510 Porter
1,988 Price Sweet
1,470 Rambo
8,620 Red Astrachan
23,261 Red Ben Davis
1,079 Red Bietigh'm'r
6,030 Red June
6,111 R. I. Greening
940 Romanite, Gilp.
1,280 Roman Stem
5,227 Rome Beauty
555 Rox. Russet
350 Rolfe
630 Salome
1,917 Scott Winter
260 Shackelford
970 Seek no fur., W.
900 Shockley
1,811 Smith Cider
9,549 Springdale
7,852 Stark
37,912 Stay. Winesap
2,520 Strawberry C.
460 Stahnaid
2,910 Summer Queen
780 Summer Rambo
1,862 Sutton Beauty
2,816 Sweet Bough
510 Tetofsky
3,771 Tolman Sweet
3,346 Wagner
5,723 Walbridge
22,555 Wealthy
720 Western Beauty
1,400 White Pippin
730 W. W. Pearm'n
930 Williams Fav.
3,455 Willow Twig
29,254 Winesap

CRAB, 2-yr., 3, 5, 1:

6,549 Wolf River
13,681 Yel. Transp.
61,375 York Imperial
3,236 Florence
1,980 Gen. Grant
3,300 Hyslop
340 Kv. Red
1,641 Martha
580 Lg. R. Siberian
410 Sylvan Sw't
1,440 Transcendent
985 Van Wyck
1,788 Whitney
880 White Arctic

PEAR, Std, 2-yr., 3, 5, 1:

3,749 Alamo
366 Anjou
8,281 Bartlett
94 Belle Lucrative
988 Birkett
1,784 Boussock
781 Clapp Fav.
1,922 Claireau
42 Columbia
94 Doy. d'Ete
1,981 Duchess
339 Flemish B'ty
6,326 Garber
2,419 Howell
247 Idaho
59,542 Kieffer
992 King Karl
3,551 Koonce
1,966 Lawrence
4,398 Lincoln
327 L. B. de Jersey
70 Lyerlie
270 Manning Eliz.
2,354 Ozark
823 Rossney
880 Seckel
442 Sheldon
277 Snyder
489 Two Crop
345 Vermont B'ty
3,258 White Doy.

QUINCE, 2-yr., 5, 1:

2,190 Meech
1,289 Mo. Mammoth
1,770 Orange

PEACH, 1-yr., all sizes:

4,125 Adm. Dewey
6,750 Alexander
15,836 Alton
1,960 Amelia
435 Amsden
580 Ark. Traveler
9,780 Belle Ga.
2,324 Bequett Free
390 Bergen Yellow
9,190 Bilyeu Late
460 Blood Cling
5,891 Bokara No. 3
870 California
37,566 Capt. Ede
34,224 Carman
46,070 Chairs Choice
28,716 Champion
310 Chilow
4,590 Chinese Cling
1,660 Conkling
30,465 Crawford Early
24,600 Crawford Late
6,715 Crosby
4,920 Crothers
1,830 Early Barnard
15,280 E'y Belle (Hiley)
8,420 Early Rivers.
6,385 Early Tillotson
82,665 Elberta
58,000 Elberta Cling
14,710 Emma
2,200 Engle Mam.
15,094 Everbearing
1,820 Family Fav.
31,484 Fitzgerald
9,350 Ford Late
12,920 Foster
7,690 Fox Sd'l'g
1,710 Frances
7,460 F. St. John
670 Fulton
8,320 Future Great
5,630 Geary Holden
3,115 Gen. Lee
160 George 4th
9,732 Globe
3,240 Gold Drop
8,670 Gold Mine
1,565 Gov. Hogg
33,114 Greensboro
660 Hale Early
28,462 Heath Cling

7,274 Hill Chili
1,900 Holderbaum
690 Hynes Surprise
950 Indian
500 Jacques R. R.
5,875 Kalamazoo
15,630 Krummel
2,335 Lady Ingold
6,160 Lemon Cling
3,850 Lemon Free
9,280 Levy Late
1,980 Lewis S'd'l'g
974 Longhurst
6,300 Mamie Ross
17,628 Mam. Heath
1,970 Marshall
1,700 Mary's Choice
22,423 Mathews B'ty
1,920 McCollister
3,520 Moore's Fav.
16,800 Mt. Rose
2,700 New Prolific
950 Oldmixon Cl'g
27,290 Oldmixon Free
942 Opulent
1,975 Orange Cling
6,490 Picquet Late
8,350 Poole Fav.
4,660 Pres't Lyon
7,595 Reeves Fav.
450 Red Rarieripe
1,360 Red River
19,193 Salway.
11,862 Sea Eagle
780 Slappey
39,337 Smock, Beers
18,473 Sneed
1,375 Snow
900 Snow's Orange
1,680 Steadley
6,130 Stevens R. R.
7,460 St. John, Yel.
3,710 Stinson Oct.
16,560 Stump the W.
2,640 Summer Snow
3,950 Susquehanna
5,820 Thurber
1,760 Tippecanoe
24,746 Triumph
7,620 Victor
6,580 Waddell
14,680 Wager
830 West's Oct.
3,125 Wheatland
8,350 Wonderful
490 Wright

PEAR, Dwf., 2-yr., 3, 5, 1:

1,470 Anjou
9,074 Bartlett
39,343 Duchess
2,265 Howell
4,280 King Karl
241 Manning Eliz.
5,431 Triumph
3,610 Baldwin
140 Bing
425 Blk. Tartarian
122 Brus. Brame
8,512 Dyehouse
42,258 E'y Richmond
1,355 Emp. Eugenie
21,889 Eng. Morello
1,639 Late Duke
3,175 L. Philippe
1,980 Lutovka
5,527 May Duke
27,137 Mont. O. King
14,760 Mont. Large
1,530 Mont. Monarch
1,340 Mont. Stark
140 Ohio Beauty
3,360 Olivet
5,112 Ostheim
7,594 Ostheimer, Ger.
597 Reine Hortense
1,370 Royal Duke
5,760 Suda
3,624 Terry
1,594 Vladimir
315 Windsor
9,594 Wragg

PLUM, 3, 5, 1, 3-ft:

25,086 Abundance
7,440 America
290 Bartlett
840 Bavay, R. Clau
1,740 Botan. Sweet
2,220 Bradshaw
18,567 Burbank
138 Coe Gold. Drop
400 Chaleco
26,731 Climax
196 Clark Early
180 Crimson B'ty

1,281 Damson
1,570 Damson, Shrop.
352 De Soto
4,524 Diamond (Blk d.)
274 Doris
150 Duane Purple
540 Eagle, of Tex.
150 Empire
2,651 Fellenb'g, Ital.
440 French Prune
260 Field
1,137 Gage, Imperial
2,662 Gage, Mo. Green
260 Gen'l Hand
3,900 German Prune
630 Golden B'ty
1,951 Gonzales
270 Grand Duke
125 Grayson
1,281 Gueii
380 Hattankio
67 Last
9,275 Lombard
270 Maru
338 Milton
239 Moore Arctic
790 Normand
197 Nona
340 Ogon
517 Pond S'd'l'g
2,776 Poole Pride
250 P. Yellow Gage
150 Red Egg
14,155 Red June
110 Red May
840 Reine Claude
1,815 Satsuma
49,327 Shiro
1,660 Shippers Pride
360 S;aulding
140 Stanton
15,479 Sultan
7,256 Tatge
160 Watson
838 Weaver
9,854 Wickson
5,457 Wild Goose
390 Willard
136 Yel. Egg

Apriocot, 5ft, 4ft, 3ft

876 Harris
2,195 Sunrise
16,179 Superb
1,365 Royal

NEW "BURNHAM" SECTIONAL

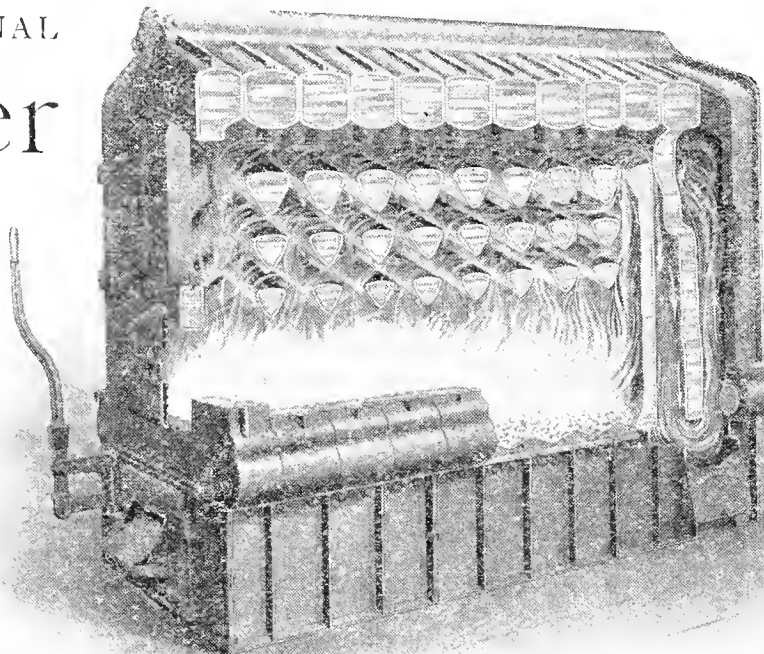
Hot Water Boiler

For Large and Small Ranges.

Highest Economy.

Moderate Cost.

Highest Award at Convention of S. A. F. O. H., Buffalo, 1901.



Greenhouses and Conservatories erected complete, with Our Patent Iron Construction. Plans and estimates on application, either for structures complete or for material only, ready for erection.

LORD & BURNHAM Co.

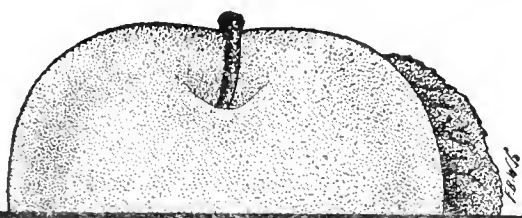
Horticultural Architects and Builders and Manufacturers of

HEATING AND VENTILATING APPARATUS

GENERAL OFFICE and WORKS
Irvington-on-the-Hudson, N. Y.

NEW YORK OFFICE
St. James Bldg., Broadway and 26th Street.

Greenhouse Construction Catalogue, also Greenhouse Heating and Ventilating Catalogue mailed from our New York Office on receipt of five cents postage for each.



THE APPLE MAN

above all others is the one who needs to spray. Good, smooth, even sized, disease-free, salable apples are now an impossibility without spraying. For the apple man's use nothing quite equals our

Century Barrel Sprayer.

Submerged brass cylinder, brass ball valves, everlasting plunger packing, a tomatic agitator. Unequalled for durability, ease of operation, free water ways. Eighteen styles of sprayers. Catalogue with formulas and testimonials free.

THE DEMING COMPANY, SALEM, OHIO. - Western Agents, Henion & Hubbell, Chicago.

When writing to Advertisers mention The National Nurseryman.

SURPLUS

WILLOWDALE NURSERIES.

California Privet. Osage Orange, 1 year and 2 year. Carolina Poplars, 1 to 4 inch. Mossy Cup. English Pin and Scarlet Oaks. Salisburias, American Elms. White Dogwoods. Horse Chestnuts. Norway, Silver, Sycamore and Sugar Maples. English Walnuts. English Filberts. Butternut American Persimmons. A good assortment of Apple Trees, 3, 5 and 1 inch grades. Japan Plums, 1 yr, 5 in. Peach Trees, 9-16. 1, 2 and 1 inch grade. Evergreens in assortment.

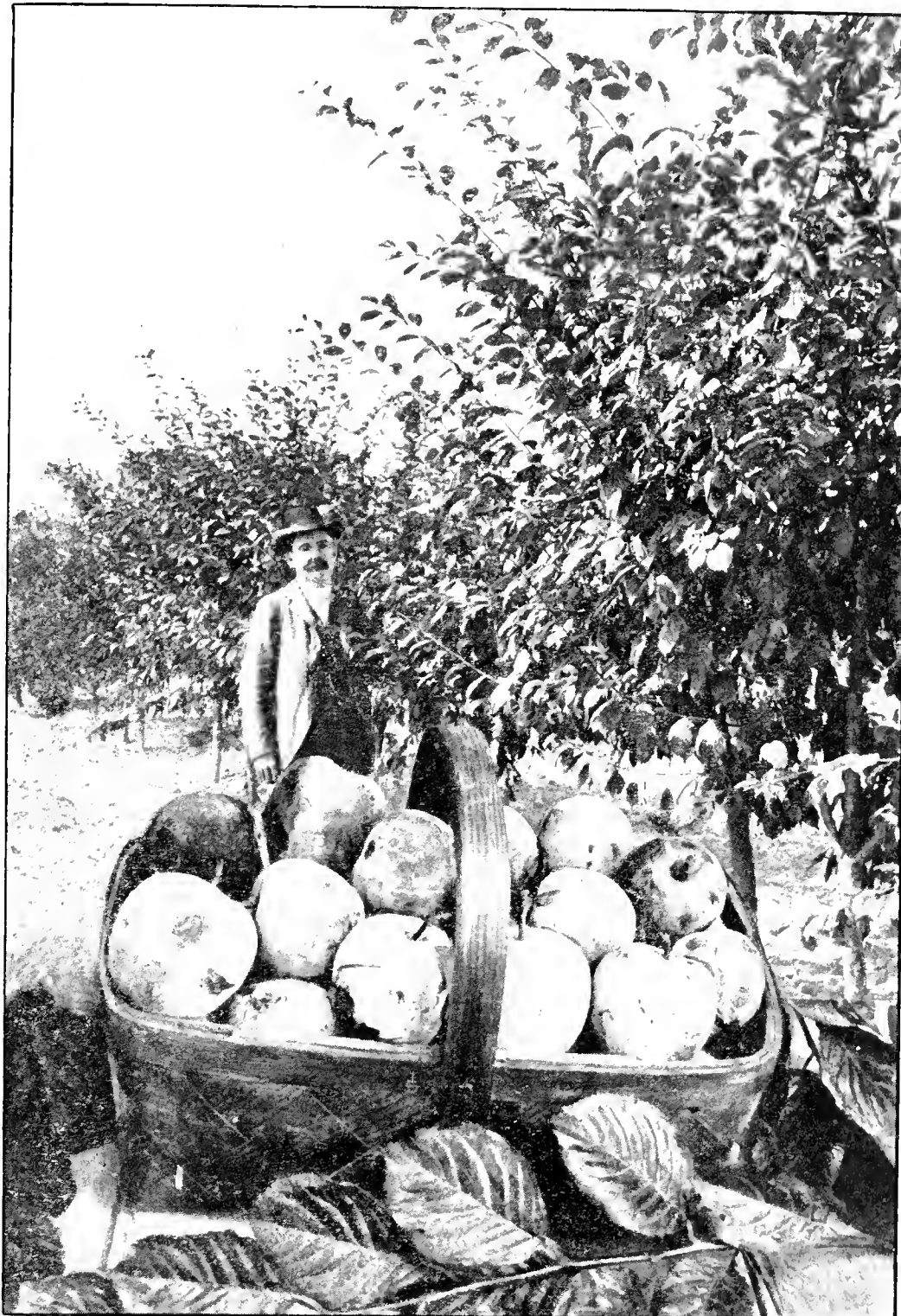
RAKESTRAW & PYLE,

Kennett Square, Pa.

When writing to Advertisers mention The National Nurseryman.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

*The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty*



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

*Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL*

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902.

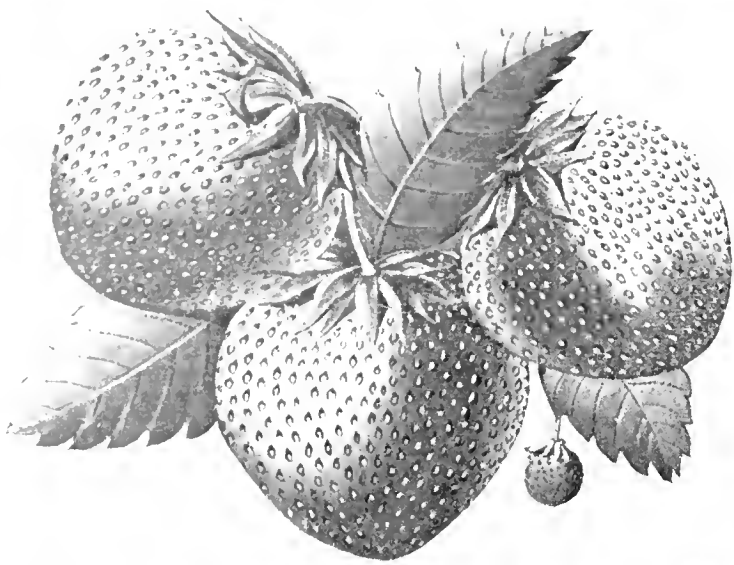
LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

STRAWBERRY PLANTS

Tied 27 in Bunch. Packed in Slatted Crates.



10,000 Aroma
50,000 Bubach
25,000 Brandywine
5,000 Bismarck
5,000 Bartons
40,000 Beder Wood
10,000 Clyde
100,000 Crescent
50,000 Excelsior
2,000 Eleanor
50,000 Gandy
50,000 Glen Mary
100,000 Haverland
1,000 Hero

50,000 Johnson's Early
5,000 Jessie
10,000 Kansas
20,000 Lady Thompson
1,000 Lovetts
1,000 May Queen
5,000 Marie
No. C,
10,000 Marshall
1,000 Margaret
5,000 McKinley
25,000 Mitchell's Early
5,000 Nick Ohmer
50,000 Ocean City

100,000 Parsons
5,000 Paris King
10,000 Parker Earle
10,000 Rough Rider
25,000 Star
1,000 Saunders
25,000 Sharpless
20,000 Sample
50,000 Tennessee
2,000 Tubbs
25,000 Warfield
1,000 Woolverton
5,000 Wm. Belt
10,000 Wilson

ASPARAGUS

20,000 Columbian Mammoth White
20,000 Donald's Elmira
20,000 Palmetto
20,000 Barr's Mammoth
20,000 Conover's Colossal

STANDARD PEARS

	$\frac{5}{8}$	$\frac{1}{2}$
Krull	200	200
Clapp's Favorite	800	1500
Flemish Beauty	900	1000
Henry		217
Belle Lucrative	100	100
Hoosac	50	50

Bartlett	800	2000
Doyenne		120
Howell		150
Idaho	100	50
Marga		60
Lawrence		1000
Anjou		480
Lawson		200
Sheldon		

DWARF PEARS

	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{2}$
Dutchess	500	200	100
Clapp's Favorite	200	300	300
Worden Seckle		100	200
Kieffer			168

KIEFFER PEARS

500 $\frac{3}{4}$ inch up, 5 to 7 ft.
800 $\frac{5}{8}$ inch, 5 to 6 ft.
4500 $\frac{1}{2}$ to $\frac{5}{8}$ inch, 4 to 6 ft., one year.
8000 3 to 4 ft., one year.
5000 2 to 3 ft., one year.

Black Walnut... 500 1 in. & up. 500 $\frac{3}{4}$ & up

100 Carolina Poplars..... 8 to 10 ft.
100 Silver Maples..... 8 to 10 ft.
50 Norway Maples..... 8 to 10 ft.

APPLE TREES

	$\frac{5}{8}$ 5 to 6 ft.	9-16 4 to 6 ft.	$\frac{1}{2}$ 4 to 5 ft.	$\frac{3}{8}$ 3 to 4 ft.
Arkansas Black	200	200	200	100
Amer. Gold. Russett	500	1000	1000	500
Baldwin	500	1500	425	500
Dominie	100	200	200	100
Duch. of Oldenberg	500	1000	1000	500
Early Strawberry	2000	2000	2000	800
Early Harvest	1500	1275	900	900
Fallawater	1000	1000	1000	500
Fall Rambo	1000	500	1000	500
Gen. Grant Crab	50	50	50	
Greenville	500	500	500	200
Gravenstein	500	500	500	200
Golden Sweet	500	500	500	200
Haas	500	500	500	200

Huntsman's Fav'rite	100	100	100	50
Hyslop	100	100	100	50
Jonathan	3000	2000	3000	2000
King	1500	1000	1500	900
Laukford Seedling	1000	1000	1000	500
Limber Twig	1000	1000	1000	500
Mann	200	200	200	100
Maiden's Blush	3000	3000	3000	2000
Missouri Pippin	1500	2000	2000	1000
Northern Spy	3500	2500	3000	2000
N. W. Greening	3000	2500	2500	1500
Newtown Pippin	500	500	500	200
Pewaukee	500	500	500	200
R. I. Greening	1500	1500	2000	1000
Rome Beauty	500	1500	2500	1500
Red June	1500	1500	1500	500
Rambo	200	200	200	100
Red Astrachan	2000	2000	2000	900

Roxbury Russett	100	100	100	....
Stark	2170	2700	1275	900
Summer Rambo	1500	1500	1500	700
Scott's Winter	1000	1000	1000	500
Smith's Cider	2000	1500	2000	900
Tallman Sweet	1000	1000	1000	500
Transcendent Crab	50	50	50	....
Winc Sap	2000	3000	3000	1500
Whitney	50	50	50	....
Willow Twig	1000	1000	1000	500
Wolf River	50	50	50	....
Wealthy	1000	1000	2000	1000
W. W. Pearmain	1000	1000	1000	500
York Stripe	1000	1000	1000	500
Yellow Transparent	3000	3000	2000	1500
Yellow Bellflower	2000	2000	2000	1000

PEACH, ONE YEAR FROM BUD.

	$\frac{3}{8}$, 3 to 4 ft.	2 to 3 ft.
Alexander	100	200
Bilyeu's Late October	3000	6000
Bronson	200	400
Barber	200	400
Burke	100	200
Bokara	200	400
Barnard's Early	100	200
Beauty Blush	100	200
Bray's R. R.	200	400
Coolridge Favorite	100	200
Crawford's Late	4000	6000
Champion	2000	4000
Chair's Choice		4000
Crawford's Early	3000	5000
Carman		1000
Crosbey	1000	2000
Christiana	200	400
Conkling	200	400
Capt. Ede	200	400
Chinese Cling	100	
Connecticut	200	200
Denton	300	500
Elberta	3000	6000

Early Rivers	1000	2000
Early York	200	500
Early Toledo	100	200
Early Davidson	100	200
Emma	200	400
Early Michigan	200	400
Fitzgerald	1000	2000
Foster	500	1000
Fox Seedling	1000	2000
Ford's Late White	1000	2000
Greensboro	500	1000
Geary's Holden	4000	5000
Globe	1000	2000
Gold Drop	100	300
Hill's Chili	1000	3000
Halc's Early	500	1000
Kalamazoo	500	1000
Lodge	200	500
Lorentz White	500	1000
Mt. Rose	3500	7000
Moore's Favorite	200	500
McCollister	200	500
New Prolific	1000	2000
Old Mixon	500	1000
Picquet's Late	1000	2000

Reeve's Favorite	2000	4000
Salway	4000	8000
Stephen's R. R.	1500	3000
Stump	600	2000
Smock	6000	9000
Sneed	1000	2000
Triumph	1000	2000
Wheatland	2000	4000
Wonderful	2500	1000
Waddell		1000
Walker's V. Free		500
Wager	100	200
Ward's Late	100	300
Yellow St. John	3000	6000

	1 to 2 ft.	6 to 12 in.
Geary's Holden	2000	1000
Salway	2000	1000
Wonderful	2000	1000
Crawford's Late	2000	1000
Elberta	5000	....
Picquet's Late	500	500
Reeve's Favorite	1000	500
Bilyeu's Late October	2000	500
Smock	5000	3000

Plants, Roots and Trees in Good Condition. Send for our Wholesale Price List to-day.

J. G. HARRISON & SONS, - BERLIN, Md.

MAR 23



March, 1903.

Painesville Nurseries

Stand at
the Head

In Acres of Land and Greenhouses
In Storage Cellars and Packing Houses
In Amount of Stock handled
In Variety of Stock grown



Fruit and Ornamental
Trees, Nut Trees
Small Fruits, Grape
Vines, Roses, Shrubs
Climbing Vines, Bulbs
Hardy Herbaceous
and Greenhouse Plants



Catalogues and Price Lists free. Personal inspection cordially invited.
Pleased to quote prices on your list of wants_____

The Storrs & Harrison Company

NURSEYMEN, FLORISTS *and* SEEDSMEN

Painesville, Ohio

ORIENTAL PLANES SUGAR MAPLES PIN OAKS WIER'S MAPLES

ALL SIZES.

Handsome Straight Trees

Also an unusually large and complete
assortment of General Nursery Stock.
All well grown and best quality.
Wholesale Catalogue on request.

ELLWANGER & BARRY

Nurserymen—Horticulturists,
ROCHESTER N. Y.

Mt. Hope Nurseries.

Established 1840.

AUG. RHOTERT

(ESTABLISHED 1893.)

26 BARCLAY STREET.
(P. O. Box 1250,

NEW YORK

TELEPHONE: 2855 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES. (Established 1795.) **Angers, (France)**

French Fruit and Ornamental Stocks, Specimen Evergreens
and Ornamental Trees, Shrubs, Roses, Magnolias, etc., of best
Quality, Packing, Grading. Prompt deliveries.

M. KOSTER & SONS. - - - **Boskoop (Holland)**

Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and
Rhododendrons, Magnolias, Hydrangeas, fine Specimen Ever-
greens and Fancy Ornamental Trees. Careful Packing, complete
and prompt deliveries.

Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) **Annan (Scotland)**

English Manettis, Norway Maples and Spruce, Birch, Beech
Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Qual-
ity, Grading and Packing.

TREE SEEDS. Apple and Pear Pips, Myrobalan, Mahaleb and
Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!

Very Best Selected Fibre.

From Stock or for Import.

WHOLESALE ONLY.

Catalogues and special quotations
on application.

When writing to Advertisers mention The National Nurseryman.

THERE ARE BARGAINS

in every issue of our monthly publication

THE HORTICULTURAL TRADE BULLETIN

If you have not received it write for a copy to-day.
It will be sent free to any member of the trade on appli-
cation.

Orders are coming in very rapidly, but we can still
offer in considerable assortment, splendid stocks of

Roses, Clematis, Climbing Vines,

Flowering Shrubs, Ornamental Trees,

Conifers, Herbaceous Plants, Florists' Stock,

Standard Pears,
Including Bartlett.

Dwarf Pears,

Cherries,

Peaches.

Send at once for the "Bulletin"; use printed station-
ery to show you belong to the trade. Not sent to any
one outside the trade.

Jackson & Perkins Co., NEWARK,
New York.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery
Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots.
Apple Seedlings, and
Mahaleb, Pear Seed-
lings, Forest Tree
Seedlings, Apple
Scions*

A good assortment of Grape Vines, Gooseber-
ries and Currants. Also Ornamental Trees
and Shrubs

When writing to Advertisers mention The National Nurseryman.

"BURNHAM" Boilers Heat

**ECONOMICALLY
EASILY
EFFICIENTLY**

We manufacture these for houses of all sizes, and sell them on their record.

Plans and estimates furnished for the material only or for Heating and Ventilating Apparatus erected complete.

We are headquarters for GREENHOUSE BUILDING MATERIAL of all kinds and shall be pleased to have your inquiries.

Catalogue mailed upon receipt of five cents for postage.

LORD & BURNHAM COMPANY,

NEW YORK OFFICE, St. James Bldg., Broadway and 26th St.
GENERAL OFFICE AND WORKS, Irvington-on-Hudson, N. Y.

**A large stock of Clematis, leading varieties.
Not Quite a Million but an Immense Quantity.**

Write for Prices.

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E. T. DICKINSON, Chatenay Seine, France.
GROWER AND EXPORTER,

HAS TO OFFER FRENCH NURSERY STOCKS, DUTCH BULBS, GLADIOLI, &c.

Fruit Tree Seedlings and Ornamentals. Pear, Apple, Plum and Cherry and Angers Quince Cuttings. All grown specially for the American trade. Pear and Crab Apple Seed. The most complete assortment of ORNAMENTAL STOCKS, TREES AND SHRUBS. Orders solicited and booked now at low rates.

E. T. DICKINSON, - - - 1 Broadway, New York.

GRAPE VINES

AND

Gurran Plants

Highest Standard of Grades. Largest Stock and
Lowest Prices Correspondence solicited.

WHEELLOCK & CLARK
FREDONIA, N. Y.

CHARLES DETRICHE, Senior,

ANGERS, FRANCE,

**Grower and Exporter of Fruit Tree Stocks, Forest
Trees and Ornamentals.**

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriché would be glad to receive any horticultural catalogues or papers.

WE have to offer for the Spring Trade, Wealthy Apple, strong 7 feet. Early Harvest Pear, 7 feet. Marlboro Raspberry Plants of the best grade. Transplanted Evergreens, one to two feet and two to three feet. Seedlings of White Spruce and American Larch, 8 to 20 inches. Always in stock, our Dry Baled Sphagnum Moss both in Burlaped and Wired Bales of the best quality.

Z. K. JEWETT & CO, SPARTA, WISCONSIN.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.
Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
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VINES

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

FOR SPRING 1903

Send Us Your Want List.

We have 150 000 Peach, including 25 000 Elberta; 250 000 Apple; also Pear, Cherry, Plum, and a general assortment of other stock. Asparagus, 1 and 2 year. Privet, extra fine, 1 year. Several thousand extra large Shade Trees. SURPLUS LIST NOW READY. We cellar no stock. All fresh from the nursery rows.

FRANKLIN DAVIS NURSERY CO.,
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Vincennes Nurseries

W. C. REED, Proprietor

OFFER FOR SPRING, 1903

APPLE, PEACH, CHERRY

Also nice lot of Standard and Dwarf Pear

Plums. Cut Leaved Maple, Elms

Hydrangeas, California Privet, Etc.

Snyder and E. Harvest Blackberry
Plants.

100000 Catalpa (Speciosa) Seedlings.

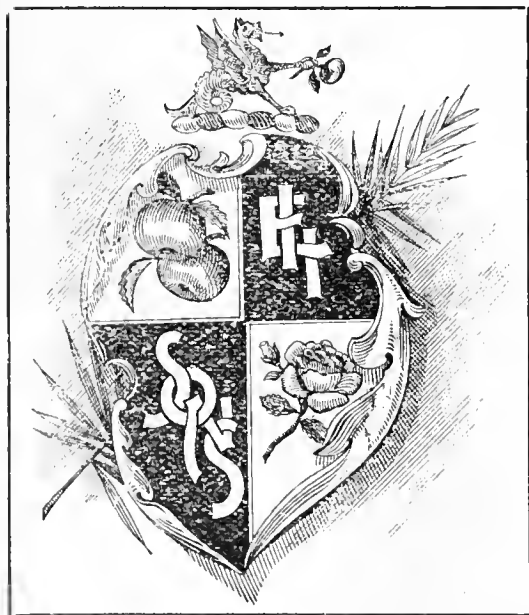
Our one year Cherry are very fine and
extra heavy.

Send us a list of your wants or come and see for yourself.

VINCENNES

INDIANA

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

CHOICE STOCK

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

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We offer for Spring 1903 one of the largest and most complete
lines of General Nursery stock on the market.

Fine Stock
Good Assortment

Kieffer and
Bartlett

APPLE CHERRY PEAR

PLUM, PEACH, SMALL FRUITS, SHADE AND
ORNAMENTAL TREES, SHRUBS, VINES,
ROSES, ETC. FRUIT TREE STOCKS, ORANGE
ORANGE

FOREST TREE SEEDLINGS

Correspondence and Inspection Invited.

Mount Arbor Nurseries

E. S. WELCH, Proprietor.

Shenandoah, - Iowa.

New Haven Nurseries

NEW HAVEN, MO.

—SURPLUS—

APPLE, PEACH
PEAR, PLUM

Strictly high grade. Over 200,000 Elberta
Correspondence and personal inspection of
stock is invited. Location, 67 miles west of
St. Louis, on main line of the Mo. Pac. R. R.
Missouri River uplands.

New Haven Nurseries

NEW HAVEN, MO.

When writing to Advertisers mention The National Nurseryman.

Albaugh Nursery

AND ORCHARD CO.

IN SURPLUS, in cellars in fine order :

PEACHES

75,000 first class, one-third E berta.

APPLES

15,000, $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, leading varieties.

PEARS

5,000, 11-16 and up, first-class. Bartlett, Seckle, Kieffer, etc.

CHERRY

5,000, 2 yrs. Sour varieties, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

PLUM

1000, on plum, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

February 1st, 1903 - First come, first served. Prices fair.

Albaugh Nursery & Orchard Co.

PHONETON, O.

Inspector's certificate on all shipments.

The H. S. Taylor Co.,

ROCHESTER, N. Y.

Brighton Central Nurseries

We offer a full and complete line of Fruit and Ornamental Stock for spring trade. Send list of wants for quotations. Specially heavy on

Ornamental Trees, Shrubby, Roses, Etc.

Every convenience for Dealers billing out on our grounds. Correspondence solicited. Address

THE H. S. TAYLOR COMPANY,

ROCHESTER, N. Y.

Offices, Cutler Building.
Nurseries at Brighton.

Fairmount Nurseries

GEO. PETERS & CO., Proprietors,
TROY, OHIO.

Offer for Spring, 1903, trade as follows :

Apple Cherry Gooseberries

Pear Plum Currants

Peach Apricot Grape

Quince Azaleas Tree Roses

Rhododendrons & Pyramidal Arbor Vitae

A GOOD SUPPLY OF BARTLETT AND KIEFFER
PEARS. Special Prices on Large Orders.

Apple, Pear, Plum and Forest Tree Seedlings

Write, or call on us for prices.

When writing to Advertisers mention The National Nurseryman.

Willis Nurseries

OTTAWA, = KANSAS.

OFFERS :

APPLES Ben Davis, Jenaton Smith's Cider, Grimes' Golden, Wealthy, Walbridge, York Imperial, North Western Greening, Tallman Sweet, Red Astrachan, Sweet June, Yellow Transparent, and others.

PEARS Kieffer, Bartlett, Flemish Beauty, Clapp's Favorite, Garber, and others.

QUINCE Orange and Champion.

DWARF PEAR Duchess, Kieffer, Flemish Beauty, Lawson, and others.

CHERRIES Early Richmond, Eng. Morello, Montmorency, May Duke, Lieb, Ostheim, Black Tartarian, and others.

PEACH Crawford's Early, Fitzgerald, Elberta, Crosby, Health Cling, Smock, Salway, and others.

GRAPES Concord, Moore's Early, Worden, Niagara, and others.

RASPBERRIES Kansas, Gregg and Cardinal.

ROSES Crimson Rambler, Gen. Jacqueminot, and others.

CLEMATIS Jackmanii, Henryii, and others.

All choice No. 1 stock. We solicit a share of your patronage.

A. WILLIS, - Prop.

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FRUIT STOCKS

If you are short on your fruit stocks for spring planting, write at once for our SPECIAL CIRCULAR, "BOX-LOTS-REDUCED PRICES." It is an opportunity to get some good bargains.

MAZZARD CHERRY SEED Only a few bushels unsold.

HYDRANGEA P. G. 2 to 2½ feet—bushy plants.

BECHTEL'S DOUBLE FLOWERING CRAB

Strong, 3 feet. 3 to 4 feet. 4 to 5 feet.

OAKS We have the largest stock in America. Our trees are particularly strong, healthy and well rooted. We also have a large quantity of seedling Oaks for nursery planting.

CALIFORNIA PRIVET For hedging, 1 to 2 feet, 1 year, 2 to 2½ feet, and 2½ to 3 feet. We are headquarters for Privet. Have also several thousand COM. MON PRIVET.

HERBACEOUS PLANTS This is a special department, under the charge of an experienced superintendent. We have an immense stock of all the good things in this line.

RAFFIA The wise nurseryman will arrange for his summer supply immediately. Prices are not only advancing but the late buyer may find it difficult to get the goods. Remember we import direct. No middleman.

THOMAS MEEHAN & SONS, Incorporated
Wholesale Department. DRESHERTOWN, MONT'G CO., PA.

The more we make
The better they take

WOOD LABELS

of every description for Nurserymen
and Florists.

Samples and Prices upon application.

Dayton Fruit Tree Label Co.

DAYTON, OHIO.

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LARGEST GROWER IN AMERICA OF GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

Introducer of Campbell's Early Grape, Josselyn Gooseberry, Fay Currant.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

GEO. S. JOSSELYN
FREDONIA, N. Y.

APPLES 100,000 2 and 3-year-old, in large assortment, as fine as grows.

PEACH 185,000. 50 leading sorts from Southern Natural Pits grown on new land.

ASPARAGUS ROOTS 1,250,000 Fine, Strong 1 and 2-year plants. Palmetto, Barr's, Donald's and Giant Argenteuil.

These are our specialties for the trade and we invite correspondence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia Dewberries, and Large Norway Maples

WEST JERSEY NURSERY CO.

STANTON B. COLE,

BRIDGETON, N. J.

"A NURSERY business for sale consisting of 85 acres of land, with two houses, packing house, stables, growing stock, &c. Located in the best agricultural part of Colorado. Will sell all or a part to suit purchaser." Address "Purchaser" care National Nurseryman.

**Peach trees a specialty.
A few more left.**

C. B. GRAY, Albion, Orleans Co., N. Y.

WANTED

Two good all round men for general nursery work, and who understand thoroughly the growing of apple and peach trees. Must be first-class budders and grafters, perfectly sober and reliable. Steady employment. Address with reference,

VILLAGE NURSERIES, Harnedsville, Pa.

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GRAPE-CUTTINGS

We offer cuttings of Concord, Worden, Niagara, Moore's Early, Moore's Diamond, Delaware, Brighton, and many other varieties, well-made and in good condition. Also grape vines, curreants and general nursery stock. Send list wanted for lowest prices. Will also contract to grow grape vines for Fall, 1903, delivery. LEWIS ROESH, FREDONIA, N. Y.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

600 ACRES
13 GREENHOUSES

50th YEAR

ESTABLISHED 1852
INCORPORATED 1890

W. E. Rossney, Pres. Sidney Tuttle, Vice-Pres.

Phoenix Nursery Co.

GROWERS OF

Fruit and Ornamental Trees, Shrubs, Evergreens, Roses, Climbing Vines, Hedge Plants, Small Fruits, Bulbs, Herbaceous Plants, Full Assortment Greenhouse Plants, etc.

Office and Greenhouses: N. Park St., opp. Wesleyan University.

Send list of wants
for prices.

BLOOMINGTON, ILLS.

First Class Stock of

SOFT MAPLE, 4 to 5 and 5 to 7 feet

WHITE ASH, 6 to 15 inch.

COLORADO BLUE SPRUCE, 18 to 24 inch.

Will be offered at very low prices by

THE GARDNER NURSERY CO., Osage, Iowa

ALBERTSON & HOBBS,

Nine miles west of Indianapolis.
Vandalia Railroad Line.

Bridgeport, Marion Co., Indiana.

R. R. Switch into our Packing House.
"New Telephone" in Office.

350 ACRES OF TREES, &c.

FOR FALL 1902 AND SPRING 1903.

We will be prepared to furnish **APPLE, PEAR, PLUM, CHERRY**, and a complete general line of Nursery Stock, including a complete assortment of varieties—in carload lots, as we have coming on the largest supply we have ever had.

Also **SILVER, NORWAY and ROCK MAPLES, CAROLINA POPLARS, EVERGREENS, WEEPING TREES, SHRUBS, &c.**

The **POMONA CURRANT** (best of all).

APPLE SEEDLINGS—We expect to have a large and fine lot of seedlings.

PEACH PITS, &c. Also **IMPORTED SEEDLINGS.**

The **best NURSERY SPADES.**

EXCELSIOR (baled)—the **best packing material**, far better and cheaper than Moss. Ask Storrs & Harrison Co., and others who have been using it. Ask for prices per ton and in carload lots. Order early. Supply limited.

Trade List ready about September 1st. Come and see for yourself.

Shipments of **APPLE, PEAR, PLUM and CHERRY** made from either Bridgeport, Indiana, or Dansville, N. Y.

Shipments of **APPLE SEEDLINGS** from either Bridgeport, Indiana, or Topeka, Kansas.



Strawberry Plants and Seed Potatoes.

How to Grow Biggest Crops.
Finest Fruit.

DESCRIPTIVE CATALOGUE FREE.
Send for it. Bargains in New
Varieties.

FLANSBURGH & PEIRSON,
Leslie, Mich.

RAFFIA FIBER

Best Nurseryman's Grade

ALWAYS ON HAND
— APPLY TO —

August Rölker & Sons
NEW YORK.

31 Barelay St.

P. O. Box 752.

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APPLE GRAFTS

We please our customers in this line by grafting each order by itself and making any style to suit. We are now putting up One Hundred Thousand per day, and expect to close our grafting soon. Your early order will be appreciated. Thirty-three years experience.

APPLE SEEDLINGS

We still have a small supply in No. 1 and No. 2 grades. Can make shipment promptly.

We
carry a large
and
complete line of
Nursery Stock

Write for Spring
Wholesale Trade

List if you
haven't received
a copy.

FOREST TREE SEEDLINGS

We have a good Stock of Ash, Box Elder, Catalpa, Maple, Russian Mulberry and Black Walnut Seedlings. They are nursery grown and carefully graded.

OSAGE ORANGE PLANTS

A large stock of both one and two year. We can supply a grade of two year plants running 1-4 inch and up, extra heavy.

Apple, Cherry, Pear, Peach, Plum, Small Fruits, Grape Vines, Roses, Shrubs, etc. Acres of Shade and Ornamental Trees.

Our large storage cellars, which cover more than an acre of ground, enable us to make prompt shipment in early spring. A side track enters our storage and runs full length of same. Exposure of stock is reduced to a minimum. Correspondence invited.

SHENANDOAH NURSERIES

D. S. LAKE, PROPRIETOR

SHENANDOAH,

IOWA.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

HAVE TO OFFER

APPLE, CHERRY, PEACH

(2 and 3 yr.) (1 and 2 yr.)

PLUM AND APRICOT

KEIFFER PEAR

(1 and 2 yr.)

SHADE TREES

Elm, Ash, Box Elder

Maple, Weeping Mulberry

APPLE SEEDLING

JAPAN PEAR SEEDLING

MAHALEB SEEDLING FOREST TREE SEEDLING

Osage, Elm, Catalpa, Maple, Honey Locust.

GRAPE VINES

BECHTEL'S FLOWERING CRAB

When writing to Advertisers mention The National Nurseryman

B. & A. SPECIALTIES

Evergreens, Hardy Herbaceous Plants, including Phlox, Iris, Paeonias, Campanula, Anemone, and numerous other varieties.

Also quantities of H. P. Roses, Standard Roses, Clematis, Rhododendrons, Hardy Azaleas, California Privet, Palms, Bay Trees, Boxwood, etc.

Ask for quotations on any stock you cannot find, and prices will be quoted promptly.

When in New York do not fail to visit our Nurseries. We are only a short distance from New York City on the Erie R. R., Rutherford, N. J., being the first station on the road.

Bobbink & Atkins,

Nurserymen and Florists,

RUTHERFORD,

New Jersey.

When writing to Advertisers mention The National Nurseryman.

HARDY PERENNIAL PLANTS

We are headquarters for Hardy Perennial plants, and not only handle the standard and popular varieties in large quantities, but can also supply a large line of sorts not generally listed, for which it will pay you to look over our catalogues, both wholesale and retail, copies of which will be sent to you free on application if you do not already receive same.

SPECIALTIES FOR SPRING, 1903

Hardy Asters, in great variety.
 Anemone Japonica. All leading sorts.
 Gaillardia Grandiflora. pot grown.
 Hardy Ornamental Grasses.
 Hemerocalis Florham. A grand new variety.
 Hypericum Moserianum. Strong field grown plants.
 Japanese Iris. 40,000 plants in stock.
 Herbaceous Paeonias. All the popular varieties.
 Oriental and Iceland Poppies.
 Hardy Garden Pinks. A choice assortment.
 Hardy Phlox, 75,000 plants in stock.
 Phlox Subulata, (Moss Pink) in variety.
 Stokesia Cyanea, the great Centaurea Aster.
 Tritoma Pfitzeri. The new everblooming variety.
 Clematis Paniculata, one, two and three year old.
 Also many other desirable hardy plants and vines.

HENRY A. DREER,
 PHILADELPHIA, PA.

KNOX NURSERIES 1851 1903

WE OFFER FOR SPRING

the following well grown, thrifty stock. We shall be pleased to quote price on application.

APPLE. 2 and 3 year, mostly $\frac{3}{4}$ and up. Ben Davis, Grimes, Ingram, Jonathan, Y. Imperial, Akin, N. W. Greening, Wine Sap, etc.

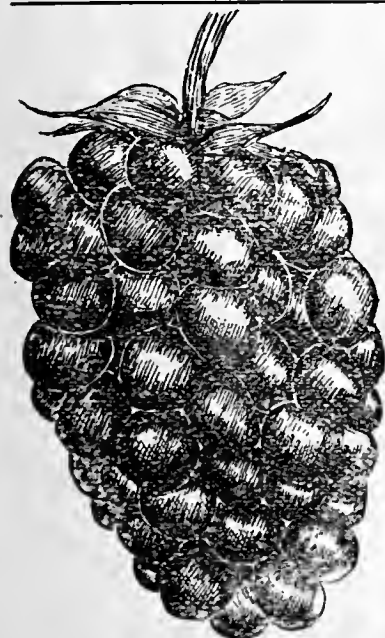
CHERRY. 1 year, $\frac{3}{4}$ and all up. Fine stock of elegant trees.

PEACH. 9-16 and up, and some small grades. Elberta and leading sorts.

KANSAS RASPBERRY TIPS.

SNYDER BLACKBERRIES. Sucker plants.

H. M. SIMPSON & SONS,
 VINCENNES, IND.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
 BRIDGEVILLE, DEL.

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W. T. HOOD & CO., OLD DOMINION NURSERIES.

RICHMOND, VA.

OFFER FOR FALL 1902 AND SPRING 1903

First class Peach, Apricots, fine lot of Sugar Maples, Silver, Norway and Weirs Cut Leaf Maples, Linden, American Linden, and Carolina Poplars. 100,000 California Privet, one and two year; 20,000 Citrus Trifoliata, two and three year; and 50,000 Silver Maple Seedlings.

Samples and prices on application.

W. T. HOOD & CO., OLD DOMINION NURSERIES,
 RICHMOND, VA.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
 Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

The Snow Hill Nurseries,

WM. M. PETERS' SONS,

R. F. D. Route

SNOW HILL, MARYLAND.

Having practically sold the bulk of our fruit trees, we offer for delivery Spring, 1903: Three millions of well rooted Strawberry Plants, all from plants set the past Spring, of the following varieties:

Auto	Hoffman	Ruby
Bubach No. 5	Jessie	Sample
Bismark	Jersey Markett	Senator Dunlap
Brandywine	Johnson's Early	Sunrise
Blonde	Kansas	Sharpless
Crescent	Lady Thompson	Saunders
Cyclone	Marshall	Shepard
Duffs	Mitchell's Early	Seaford
Drowth King	Nickomer	Tubbs
Elmor	New York	Tillman's Favorite
Enormous	Ocean City	Tennessee
Gandy	Parker Earl	Up-to-Date
Glenmary	Parson's Beauty	Wolverton
Gladstone	Pride of Cumberland	Warfield
Greenville	Ridgeaway	

Also a fine lot of California Privet, and 500,000 Asparagus Roots, 2 year, in the following varieties: Conover Colossal, Barr's Mammoth, Palmeto. Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE, FILS AINE Nurseryman

AT USSY, CALVADOS, FRANCE

Grower and shipper of Fruit Tree Stocks. Apple, Pear, Myrobalan, Mahaleb, Mazzard Cherry, Angers Quince, Etc. Ornamental Shrubs, Conifers, Roses, Manetti, Multiflora, Etc; all well grown, good rooted and in excellent condition; prices low; safe packing. For quotations apply to my Sole Agents for the United States and Canada.

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay St.

WHOLESALE NURSERIES

We have a full line of stock for Nurserymen and Dealers, including APPLE GRAFTS PUT UP TO ORDER, PIECE OR WHOLE ROOTS, Thirty-five years in the business.

THE ONLY PRACTICAL BOX CLAMP IN USE—CHEAP

R. H. BLAIR & CO., Proprietors of LEE'S SUMMIT NURSERIES.

N. W. CORNER 11TH AND WALNUT STS., KANSAS CITY, MO.

SURPLUS

OF APPLE, PEACH, NORWAY MAPLE, IRISH JUNIPER, ABUNDANCE AND HALE PLUM.

C. L. Longsdorf, Floradale, Pa.

I still have a few thousand
Peach trees to offer.

EUGENE COVEY, - - PENFIELD, N. Y.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

•——TO ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,

St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention the National Nurseryman.

Over 400 Acres in Nursery. 60,000 Feet of Glass.

SPECIAL LOW PRICES

Are offered to clean up some blocks of

CHERRIES, 4-5 ft., 3-4 ft., and 2½-3 ft. NECTARINES,
4-5 ft. GRAPES, heavy, 2 yrs. ENGLISH WAL-
NUTS, 18-24 in. CITRUS TRIFOLIATA. (Best de-
fensive hedge plant).

In addition to the above we have a fine lot of

SHRUBS, CONIFERS, DECIDUOUS SHRUBS AND
TREES. CLEMATIS APIIFOLIA.

ORANGES, LEMONS, LIMES, POMELOS. KUM-
KWATS (Grafted upon Citrus Trifoliata), nice bushy plants,
1-4 ft. All fruiting size and pot grown.

CANNAS—dry roots, best sorts. CLIMBING-CLOTH-
ILDE-SOUPERT-ROSE—field grown. RUBBERS, 10-
12 in. (From top cuttings.)

250,000 PALMS

KENTIAS, LATANIAS, PHOENIX, PANDANUS and
CHAMAEROPS. All in fine condition.

WRITE FOR PRICES.

P. J. Berckmans Co.

(INCORPORATED)

FRUITLAND NURSERIES,

Established 1856.

AUGUSTA, Ga.

THE

Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PÆONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Full trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to advertisers mention The National Nurseryman.

300 BUSHELS COW PEAS

Pure Red Ripper Variety—best for soil, hay and seed. 30,000 assorted Peach Trees for Spring Shipment. Write for Prices.

J. Van Lindley Nursery Co., Pomona, N. C.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,
509 Arch Street, PHILADELPHIA, Pa.

THE FOLLOWING FIRST-CLASS APPLE TREES

3-4 and up, offered for Spring, 1903:

500 each Sweet Bough, Ramsdell's Sweet (Red Fall), Price's Sweet (Red Winter), and Tallman Sweet. 1000 each Yellow Transparent and N. W. Greening; also leading sorts of Crab Apple Trees in moderate numbers. Prices, etc., on application. Address

O. K. GERRISH, Lakeville, Mass.

WANTED An experienced Nurseryman for foreman, one who is able to take charge of general work of Planting, &c.

BLAIR & KAUFMAN,
Kansas City, Mo.

100,000

EXTRA
FANCY

BARTLETT PEARS

FOR SALE. We are prepared to quote an extremely low figure on this stock. Address:

FANCHER CREEK NURSERIES, (INC.)
FRESNO, CALIFORNIA.

BLEVINS BROS. WHOLE ROOT NURSERY

The largest nurseries in Northwest Arkansas. We make the APPLE TREE a specialty. Our stock is guaranteed true to name. Write to us for prices.

Main Office

BENTONVILLE, ARKANSAS

SURPLUS STOCK FOR SPRING, 1903.

Poplars—Lombardy and Carolina, fine, 10 to 12 feet. Norway Maples—1 inch cal. to 4 inch. Osage Orange—2 years, cheap in 10 000 lots. California Privet—1 year, good, and 3 years, strong, 5 to 6 ft.

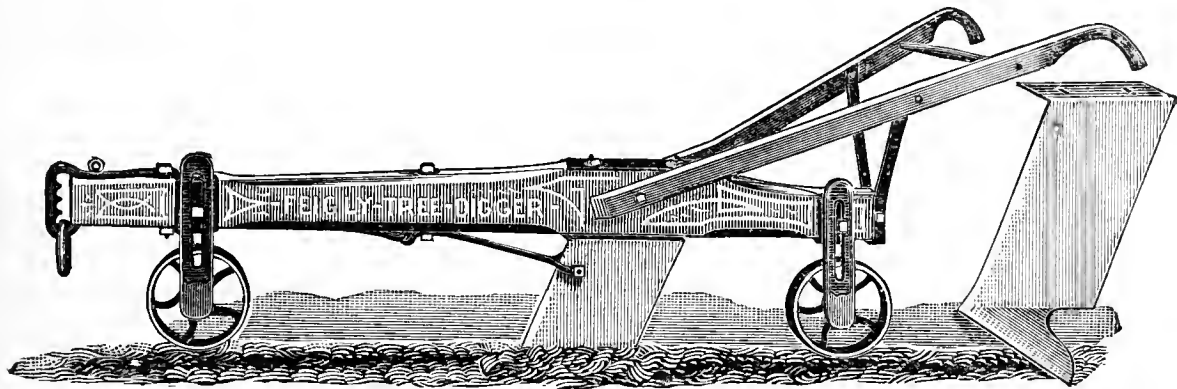
JOSIAH A. ROBERTS, MALVERN, PA.

PRUDENTIAL ORCHARD CO.

SHERMANVILLE, PA.

All kinds Fruit and Ornamental Trees, Shrubs and Vines
WANTED Gooseberry Stools and Blackberry Root Cuttings, also some Standard and Dwarf Pear and No. 1 Cherry trees.

Good salesmen wanted, we furnish good rigs and pay salary.



The Feigly Tree Digger

A Money-Saving Tool for Nurserymen

Manufactured by

D. FEIGLY, MEDWAY, Ohio

SOLE AGENT.

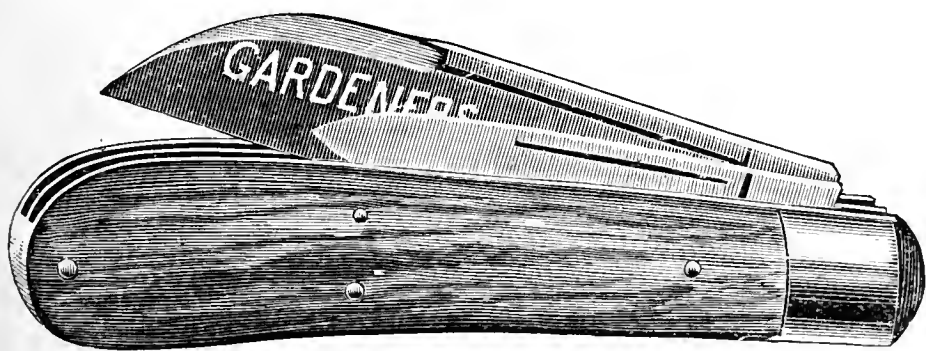
Send for Circular.

WIRELESS TELEGRAPHY

appears to be a pronounced success, but LABELLESS TREES are an innovation that should not be considered, for the present season at least. Early orders by mail will conduce to your piece of mind later in the season.

BENJAMIN CHASE,

DERRY, N. H.



This cut is exact size of our pocket "GARDENER." Price, post paid, 50 cents each. We call the large blade "sheep foot" point; can be had with common point if wanted. We sell Grafting Knives at 20c. and 25c. Budding, riveted blade, 25c. Pocket Budder, 35c. Pocket Pruning Knife, 55c., 75c. and \$1.00. Send for 12 page special Nursery Catalogue. We have special Lists of Knives, Shears and Razors. Free by mail on request.

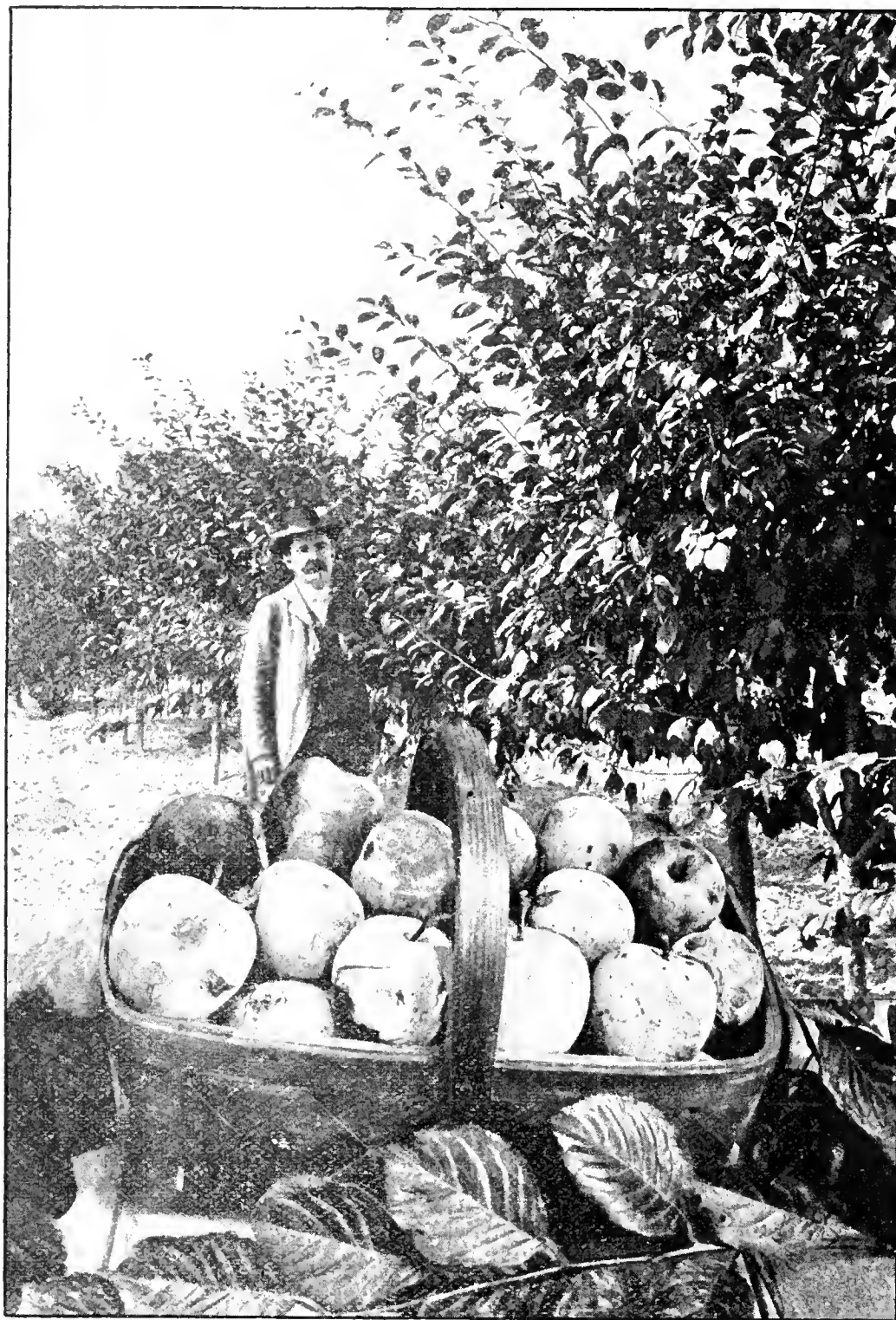
Nurserymen's Knives—Hand forged. Razor steel. Warranted. Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

When writing to Advertisers mention The National Nurseryman.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

Continental Nurseries



*The largest and most complete
Nursery plant in the United States.*

*We have a full line of Nursery
Stock the coming year for the whole-
sale trade.*

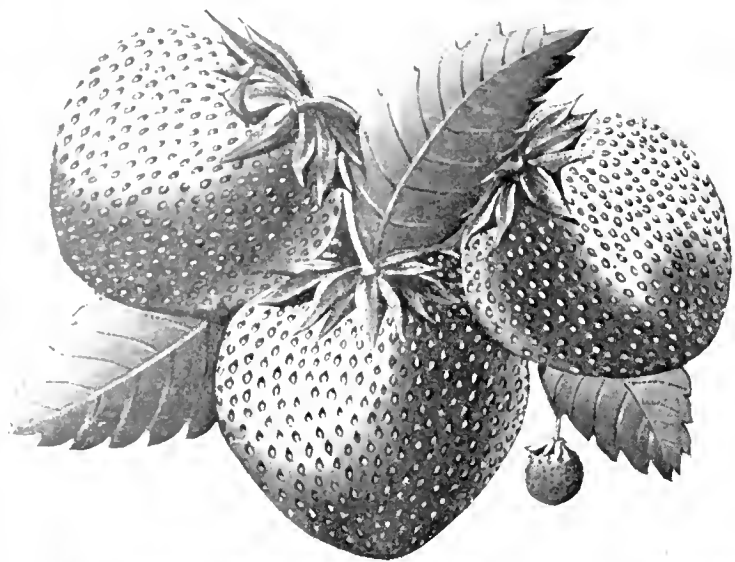
*We should be pleased to receive
your list for estimate.*



Brown Brothers Co.,
ROCHESTER, N. Y.

STRAWBERRY PLANTS

Tied 27 in Bunch. Packed in Slatted Crates.



10,000 Aroma
50,000 Pubach
25,000 Brandywine
5,000 Bismarck
5,000 Bartons
40,000 Beder Wood
10,000 Clyde
100,000 Crescent
50,000 Excelsior
2,000 Elanor
50,000 Gandy
50,000 Glen Mary
100,000 Haverland
1,000 Hero

50,000 Johnson's Early
5,000 Jessie
10,000 Kansas
20,000 Lady Thompson
1,000 Lovetts
1,000 May Queen
5,000 Marie
No C,
10,000 Marshall
1,000 Margaret
5,000 McKinley
25,000 Mitchell's Early
5,000 Nick Ohmer
50,000 Ocean City

100,000 Parsons
5,000 Paris King
10,000 Parker Earle
10,000 Rough Rider
25,000 Star
1,000 Saunders
25,000 Sharpless
20,000 Sample
50,000 Tennessee
2,000 Tubbs
25,000 Warfield
1,000 Woolverton
5,000 Wm. Belt
10,000 Wilson

ASPARAGUS

20,000 Columbian Mammoth White
20,000 Donald's Elmira
20,000 Palmetto
20,000 Barr's Mammoth
20,000 Conover's Colossal

STANDARD PEARS

	$\frac{5}{8}$	$\frac{1}{2}$
Krull	200	200
Clapp's Favorite	800	1500
Flemish Beauty	900	1000
Henry	...	217
Belle Lucrative	100	100
Hoosac	50	50

Bartlett	800	2000
Doyenne	...	120
Howell	...	150
Idaho	100	50
Marga	...	60
Lawrence	...	1000
Anjou	...	480
Lawson	...	...
Sheldon	...	200

DWARF PEARS

	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{2}$
Dutchess	500	200	100
Clapp's Favorite	200	300	300
Worden Seckle	...	100	200
Kieffer	...	...	168

KIEFFER PEARS

500 $\frac{3}{4}$ inch up, 5 to 7 ft.
800 $\frac{5}{8}$ inch, 5 to 6 ft.
4500 $\frac{1}{2}$ to $\frac{3}{4}$ inch, 4 to 6 ft., one year.
8000 $\frac{3}{4}$ to 4 ft., one year.
5000 2 to 3 ft., one year.

Black Walnut.. 500 1 in. & up. 500 $\frac{3}{4}$ & up

100 Carolina Poplars..... 8 to 10 ft.
100 Silver Maples..... 8 to 10 ft.
50 Norway Maples..... 8 to 10 ft.

APPLE TREES

	$\frac{5}{8}$ 5 to 6 ft.	9-16 4 to 6 ft.	$\frac{1}{2}$ 4 to 5 ft.	$\frac{3}{8}$ 3 to 4 ft.
Arkansas Black	200	200	200	100
Amer. Gold. Russett	500	1000	1000	500
Baldwin	500	1500	425	500
Dominie	100	200	200	100
Duch. of Oldenberg	500	1000	1000	500
Early Strawberry	2000	2000	2000	800
Early Harvest	1500	1275	900	900
Fallawater	1000	1000	1000	500
Fall Rambo	1000	500	1000	500
Gen. Grant Crab	50	50	50	...
Greenville	500	500	500	200
Gravenstein	500	500	500	200
Golden Sweet	500	500	500	200
Haas	500	500	500	200

Huntsman's Fav'rite	100	100	100	50
Hyslop	100	100	100	50
Jonathan	3000	2000	3000	2000
King	1500	1000	1500	900
Lankford Seedling	1000	1000	1000	500
Limber Twig	100	...	...	500
Mann	200	...	...	100
Maiden's Blush	3000	3000	3000	2000
Missouri Pippin	1500	2000	2000	1000
Northern Spy	3500	2500	3000	2000
N. W. Greening	3000	2500	2500	1500
Newtown Pippin	500	500	500	200
Pewaukee	500	500	500	200
R. I. Greening	1500	1500	2000	1000
Rome Beauty	500	1500	2500	1500
Red June	1500	1500	1500	500
Rambo	200	200	200	100
Red Astrachan	2000	2000	2000	900

Roxbury Russett	100	100	100	...
Stark	2170	2700	1275	900
Summer Rambo	1500	1500	1500	700
Scott's Winter	1000	1000	1000	500
Smith's Cider	2000	1500	2000	900
Tallman Sweet	1000	1000	1000	500
Transcendent Crab	50	50	50	...
Wine Sap	2000	3000	3000	1500
Whitney	50	50	50	...
Willow Twig	1000	1000	1000	500
Wolf River	50	50	50	...
Wealthy	1000	1000	2000	1000
W. W. Pearmain	1000	1000	1000	500
York Stripe	1000	1000	1000	500
Yellow Transparent	3000	3000	2000	1500
Yellow Bellflower	2000	2000	2000	1000

PEACH, ONE YEAR FROM BUD.

	$\frac{3}{4}$, 3 to 4 ft.	2 to 3 ft.
Alexander	100	200
Bilyeu's Late October	3000	6000
Bronson	200	400
Barber	200	400
Burke	100	200
Bokara	200	400
Barnard's Early	100	200
Beauty Blush	100	200
Bray's R. R.	200	400
Coolridge Favorite	100	200
Crawford's Late	4000	6000
Champion	2000	4000
Chair's Choice	...	4000
Crawford's Early	3000	5000
Carman	...	1000
Crosbey	1000	2000
Christiana	200	400
Conkling	200	400
Capt. Ede	200	400
Chinese Cling	100	...
Connecticut	200	200
Denton	300	500
Elberta	3000	6000

Early Rivers	1000	2000
Early York	200	500
Early Toledo	100	200
Early Davidson	100	200
Emma	200	400
Early Michigan	200	400
Fitzgerald	1000	2000
Foster	500	1000
Fox Seedling	1000	2000
Ford's Late White	1000	2000
Greensboro	500	1000
Geary's Holdon	4000	5000
Globe	1000	2000
Gold Drop	100	300
Hill's Chili	1000	3000
Hale's Early	500	1000
Kalamazoo	500	1000
Lodge	200	500
Lorentz White	500	1000
Mt. Rose	3500	7000
Moore's Favorite	200	500
McCollister	200	500
New Prolific	1000	2000
Old Mixon	500	1000
Picquet's Late	1000	2000

Reeve's Favorite	2000	4000
Salway	4000	8000
Stephen's R. R.	1500	3000
Stump	600	2000
Smock	6000	9000
Sneed	1000	2000
Triumph	1000	2000
Wheatland	2000	4000
Wonderful	2500	1000
Waddell	...	1000
Walker's V. Frec	...	500
Wager	100	200
Ward's Late	100	300
Yellow St. John	3000	6000

	1 to 2 ft.	6 to 12 in.
Geary's Holdon	2000	1000
Salway	2000	1000
Wonderful	2000	1000
Crawford's Late	2000	1000
Elberta	5000	...
Picquet's Late	500	500
Reeve's Favorite	1000	500
Bilyeu's Late October	2000	500
Smock	5000	3000

Plants, Roots and Trees in Good Condition. Send for our Wholesale Price List to-day.

J. G. HARRISON & SONS, - BERLIN, Md.



April, 1903

Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Stand at
the Head

In Acres of Land and Greenhouses
In Storage Cellars and Packing Houses
In Amount of Stock handled
In Variety of Stock grown



Fruit and Ornamental
Trees, Nut Trees
Small Fruits, Grape
Vines, Roses, Shrubs
Climbing Vines, Bulbs
Hardy Herbaceous
and Greenhouse Plants



Catalogues and Price Lists free. Personal inspection cordially invited.
Pleased to quote prices on your list of wants—

The Storrs & Harrison Company

NURSEYMEN, FLORISTS *and* SEEDSMEN

Painesville, Ohio

ORIENTAL PLANES SUGAR MAPLES == PIN OAKS == WIER'S MAPLES

ALL SIZES.

Handsome Straight Trees

Also an unusually large and complete
assortment of General Nursery Stock.
All well grown and best quality.
Wholesale Catalogue on request.

ELLWANGER & BARRY

Nurserymen—Horticulturists,
ROCHESTER N. Y.

Mt. Hope Nurseries.

Established 1840.

AUG. RHOTERT

(ESTABLISHED 1893.)

26 BARCLAY STREET.
(P. O. Box 1250,

NEW YORK

TELEPHONE: 2855 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES. (Established 1795.) **Angers, (France)**

French Fruit and Ornamental Stocks, Specimen Evergreens
and Ornamental Trees, Shrubs, Roses, Magnolias, etc., of best
Quality, Packing, Grading. Prompt deliveries.

M. KOSTER & SONS. - - - **Boskoop (Holland)**

Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and
Rhododendrons, Magnolias, Hydrangeas, fine Specimen Ever-
greens and Fancy Ornamental Trees. Careful Packing, complete
and prompt deliveries.

Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) **Annan (Scotland)**

English Manettis, Norway Maples and Spruce, Birch, Beech
Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Qual-
ity, Grading and Packing.

TREE SEEDS. Apple and Pear Pips, Myrobalan, Mahaleb and
Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!

Very Best Selected Fibre.

From Stock or for Import.

WHOLESALE ONLY.

Catalogues and special quotations
on application.

When writing to Advertisers mention The National Nurseryman.

THERE ARE BARGAINS

in every issue of our monthly publication

THE HORTICULTURAL TRADE BULLETIN

If you have not received it write for a copy to-day.
It will be sent free to any member of the trade on appli-
cation.

Orders are coming in very rapidly, but we can still
offer in considerable assortment, splendid stocks of

Roses, Clematis, Climbing Vines,
Flowering Shrubs, Ornamental Trees,
Conifers, Herbaceous Plants, Florists' Stock,
Standard Pears, Dwarf Pears,
Including Bartlett,
Cherries, Peaches.

Send at once for the "Bulletin"; use printed station-
ery to show you belong to the trade. Not sent to any
one outside the trade.

Jackson & Perkins Co., NEWARK,
New York.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery
Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Apple Seedlings, and
Mahaleb, Pear Seed-
lings, Forest Tree
Seedlings, Apple
Scions*

A good assortment of Grape Vines, Gooseber-
ries and Currants. Also Ornamental Trees
and Shrubs

When writing to Advertisers mention The National Nurseryman.

TRAVELING SALESMEN WANTED.

To sell Nursery Stock. Must understand thoroughly all kinds of hardy trees and plants for the retail trade. Salary and expenses paid according to the ability of the person. Permanent employment. Address

KEENE & FOULK,
Bloodgood Nurseries, Flushing, N. Y.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

600 ACRES
13 GREENHOUSES

50th YEAR

ESTABLISHED 1852
INCORPORATED 1890

W. E. Rossney, Pres. Sidney Tuttle, Vice-Pres.

Phoenix Nursery Co.

GROWERS OF

Fruit and Ornamental Trees, Shrubs, Evergreens, Roses, Climbing Vines, Hedge Plants, Small Fruits, Bulbs, Herbaceous Plants, Full Assortment Greenhouse Plants, etc.

Office and Greenhouses: N. Park St, opp. Wesleyan University.

Send list of wants
for prices.

BLOOMINGTON, ILLS.

WANTED.

Four first-class Salesmen to sell Nursery Stock, two men for city work, and two for country. Good pay to right men. Write stating wages wanted, also what you can do.

HYDE PARK NURSERY,
504-145 La Salle Street, Chicago, Ill.

ALBERTSON & HOBBS,

Nine miles west of Indianapolis.
Vandalia Railroad Line.

Bridgeport, Marion Co., Indiana. R. R. Switch into our Packing House.
"New Telephone" in Office.

350 ACRES OF TREES, &c.

FOR FALL 1902 AND SPRING 1903.

We will be prepared to furnish **APPLE, PEAR, PLUM, CHERRY**, and a complete general line of Nursery Stock, including a complete assortment of varieties—in carload lots, as we have coming on the largest supply we have ever had.

Also **SILVER, NORWAY and ROCK MAPLES, CAROLINA POPLARS, EVERGREENS, WEEPING TREES, SHRUBS, &c.**

The **POMONA CURRANT** (best of all).

APPLE SEEDLINGS—We expect to have a large and fine lot of seedlings.

PEACH PITS, &c. Also **IMPORTED SEEDLINGS.**

The **best NURSERY SPADES.**

EXCELSIOR (baled)—the **best packing material**, far better and cheaper than Moss. Ask Storrs & Harrison Co., and others who have been using it. Ask for prices per ton and in carload lots. Order early. Supply limited.

Trade List ready about September 1st. Come and see for yourself.

Shipments of **APPLE, PEAR, PLUM and CHERRY** made from either Bridgeport, Indiana, or Dansville, N. Y.

Shipments of **APPLE SEEDLINGS** from either Bridgeport, Indiana, or Topeka, Kansas.

Traveling Salesman

familiar with Nursery Line:—
Young, energetic, sober and representative business man for visiting the Wholesale Trade and Growers in w established lines of European Cultures. State reference e, experience and Salary wanted. Address: "Strictly Confidential" care of the National Nurseryman, Rochester, N. Y.

RAFFIA FIBER

Best Nurseryman's Grade

ALWAYS ON HAND

APPLY TO

August Rölker & Sons
NEW YORK,

31 Barclay St.

P. O. Box 752

FRUIT STOCKS

If you are short on your fruit stocks for spring planting, write at once for our SPECIAL CIRCULAR, "BOX-LOTS-REDUCED PRICES." It is an opportunity to get some good bargains.

MAZZARD CHERRY SEED Only a few bushels unsold.

HYDRANGEA P. G. 2 to 2½ feet—bushy plants.

BECHTEL'S DOUBLE FLOWERING CRAB

Strong, 3 feet. 3 to 4 feet. 4 to 5 feet.

OAKS We have the largest stock in America. Our trees are particularly strong, healthy and well rooted. We also have a large quantity of seedling Oaks for nursery planting.

CALIFORNIA PRIVET For hedging, 1 to 2 feet, 1 year, 2 to 2½ feet, and 2½ to 3 feet. We are headquarters for Privet. Have also several thousand COMMON PRIVET.

HERBACEOUS PLANTS This is a special department, under the charge of an experienced superintendent. We have an immense stock of all the good things in this line.

RAFFIA The wise nurseryman will arrange for his summer supply immediately. Prices are not only advancing but the late buyer may find it difficult to get the goods. Remember we import direct. No middleman.

THOMAS MEEHAN & SONS, Incorporated
Wholesale Department. DRESHERTOWN, MONT'G CO., PA.

The more we make
The better they take

WOOD LABELS

of every description for Nurserymen
and Florists.

Samples and Prices upon application.

Dayton Fruit Tree Label Co.
DAYTON, OHIO.

When writing to Advertisers mention The National Nurseryman.

LARGEST GROWER IN AMERICA OF GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

Introducer of Campbell's Early Grape Josselyn Gooseberry Fay Currant.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

GEO. S. JOSSELYN
FREDONIA, N. Y.

APPLES 100,000 2 and 3-year-old, in large assortment, as fine as grows.

PEACH 185,000. 50 leading sorts from Southern Natural Pits grown on new land.

ASPARAGUS ROOTS 1,250,000 Fine, Strong 1 and 2-year plants. Palmetto, Barr's, Donald's and Giant Argenteuil.

These are our specialties for the trade and we invite correspondence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia Dewberries, and Large Norway Maples.

WEST JERSEY NURSERY CO.

STANTON B. COLE, - BRIDGETON, N. J.

"A NURSERY business for sale consisting of 85 acres of land, with two houses, packing house, stables, growing stock, &c. Located in the best agricultural part of Colorado. Will sell all or a part to suit purchaser." Address "Purchaser" care National Nurseryman.

WANTED,

Man to help in Pecan Nursery, for hire or part interest.
Address,

HOMER STUART,
Lock Box 713, Fitzgerald, Georgia.

WANTED Two good all round men for general nursery work, and who understand thoroughly the growing of apple and peach trees. Must be first-class budders and grafters, perfectly sober and reliable. Steady employment. Address with reference,

VILLAGE NURSERIES, Harnedsville, Pa.
When writing to Advertisers mention The National Nurseryman.

Specialties for Spring 1903

Peach Trees

Heavy Norway Maples

Sugar Maples of different sizes

Carolina Poplars

Babylonian Weeping Willows

Hydrangea pan. grand 2 to 3 ft.

Japan Snowballs

Spirea Thunbergia

Variegated Leaf Weiglia

American Arbor Vitae, 4 to 5 ft. & 5 to 6 ft.

Crimson Ramblers

George Achelis
West Chester, Pa.



The Deming Field Sprayer

A model implement for acreage work on Potatoes, Strawberries, Small Nursery Stock, etc. Sprays 4 rows of potatoes at once and adjusts for wide or narrow rows.

One Man Can Operate.

Can be attached to any barrel sprayer and fitted to any wagon. Fitted with famous Bordeaux or Deming-Vermorel nozzles. We fit everybody's needs in bucket, barrel, knapsack and other sprayers. Write for free spraying catalogue.

THE DEMING CO., Salem, Ohio.
Henion & Hubbell, Western Agts., Chicago, Ill.

THERE IS NO OTHER SHRUB so grand in flower and foliage the year round as the Rhododendron. We are experts in handling them, and Highlands Nursery, 3800 feet elevation in the Carolina mountain, is the first and only establishment growing Rhododendrons, Azaleas, Kalmias and other strictly hardy Native Plants exclusively.

Native plants produce the best results with the least outlay for Parks, Cemeteries and all plantings. The leading establishments in America and Europe are supplied by us. Catalogue beautifully illustrated with original half tones free.

Wholesale catalogue to the trade only.

Address Boston Office. Harlan P. Kelsey, Tremont Building, Boston, Mass. Proprietor Highlands Nursery, Kawana, N. C., 65 acres of Hardy Native plants.

SURPLUS FOR QUICK SALES.

....Spring of 1903....

NORWAY MAPLES, 6, 7, 8 and 9 feet, low price; young thrifty trees. Lombardy Poplars, 11 to 12 feet, very fine. Carolina Poplars, 10 to 12 feet, very fine. California Privet, 5 to 6 feet, bushy. 75,000 2-year Osage Orange. 2,000 Golden Queen Raspberry.

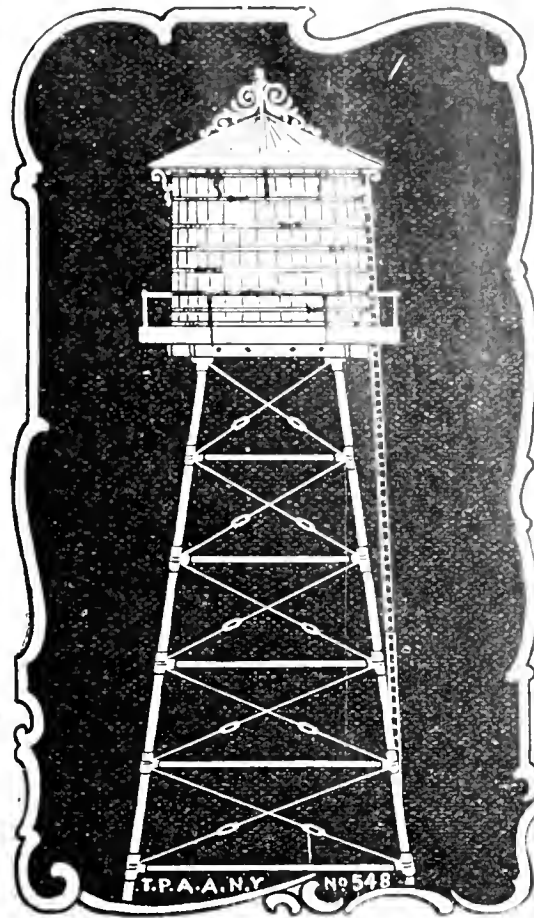
JOSIAH A. ROBERTS, - - - MALVERN, PA.

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PROGRESSIVE Florists and Nurserymen

everywhere endorse

CALDWELL
Cypress Tanks
AND
CALDWELL
Steel Towers.



They know they can depend on having an ample supply of water at a uniform pressure. Careful construction by skilled mechanics and the best materials preclude all possibility of leaks or collapse.

You will be interested in our catalogue and price list.

W. E. CALDWELL CO.,
LOUISVILLE, KY.

Give Us An Offer

On 75,000 Peach Seedling trees, 2-year-old, nice trees, 3-6 ft, nicely trimmed and tied 25 in bunch. 3000 Silver or Soft Maple, 2-3 ft. 100,000 Lovett Strawberry Plants, 50,000 Crescent Strawberry Plants, 25000 Excelsior Strawberry Plants, 13,000 Mitchell's Early Strawberry Plants, 10,000 Senator Dunlap Strawberry Plants, 10,000 Johnson's Early Strawberry Plants, 20,000 Warfield Strawberry Plants, 3000 splendid early Strawberry Plants. 10,000 Baldwin and Ben Davis Apple Trees, 2-year-old light grade, 1/2 in. up to 3-4 ft.

PRICES ON APPLICATION.

CHAS. ERNST'S NURSERIES,
MOSCOW, OHIO.

FOR AVENUES

Nothing surpasses SUGAR MAPLES and ORIENTAL PLANES. Their healthy growth, hardiness and adaptability to most soils is unquestioned.

Plant LONICERA HALLIANA, CLEMATIS PANICULATA and the elegant new Japanese CELASTRUS ARTICULATUS, as no better vines are listed.

Our STANDARD HYDRANGEAS are unexcelled for symmetry and vigor. They are the best we have ever grown.

Write for circulars and colored plates of our splendid new PEDIGREE ROSE that we will introduce this spring.

HOOPES, BRO. & THOMAS,

Maple Avenue Nurseries,

WEST CHESTER, PENN.

When writing to Advertisers mention The National Nurseryman.

SPECIMENS

NORDMAN'S FIR AND EASTERN SPRUCE

THREE TO FOUR FEET.

Hemlock Spruce, 3 to 6 feet. Weeping Spruce, (*Picea excelsa inverta.*) Splendid odd specimens, 4 to 10 feet high, \$2.00 to \$25.00 each. Deciduous or "bald" Cypress, 8 to 10 feet. Viburnum Tomentosum, 4 to 5 feet, fine bushes. Ligustrum Iboia (true) 4 to 6 feet. Althea, Double White Standards, 7 to 8 feet; stems 4 to 5 feet, 3-year heads. All recently transplanted. Ask for descriptive catalogue and spring trade list of CHOICE STOCK.

SAMUEL C. MOON, - MORRISVILLE, PA.

MORRISVILLE NURSERY.

FANCHER GREEK NURSERIES, (INC.) FRESNO, CALIFORNIA.

100,000 Bartlett Pears in Surplus

Largest growers of general NURSERY stock on the Pacific Coast. All varieties of EUCALYPTUS trees. Field Grown ROSES. Large Catalogue full of information mailed FREE.

Address

GEO. C. ROEDING, Pres. and Mgr.
FRESNO, CALIF.

Originator of The "CALIMYRNA" Fig.

A large stock of Clematis, leading varieties.
Not Quite a Million but an Immense Quantity.

Write for Prices.

P. W. Butler, East Penfield, N. Y.

E. T. DICKINSON, Chatenay Seine,
GROWER AND EXPORTER, France.

HAS TO OFFER FRENCH NURSERY STOCKS, DUTCH BULBS, GLADIOLI, &C.
Fruit Tree Seedlings and Ornamentals. Pear, Apple, Plum and Cherry and Angers Quince Cuttings. All grown specially for the American trade. Pear and Crab Apple Seed. The most complete assortment of ORNAMENTAL STOCKS, TREES AND SHRUBS. Orders solicited and booked now at low rates.

E. T. DICKINSON, - - - 1 Broadway, New York.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

39 AND 41 CORTLANDT STREET, NEW YORK.

FOR SPRING 1903

Send Us Your Want List.

We have 150,000 Peach, including 25,000 Elberta; 250,000 Apple; also Pear, Cherry, Plum, and a general assortment of other stock. Asparagus, 1 and 2 year. Privet, extra fine, 1 year. Several thousand extra large Shade Trees. SURPLUS LIST NOW READY. We cellar no stock. All fresh from the nursery rows.

FRANKLIN DAVIS NURSERY CO.,
BALTIMORE, MARYLAND.

When writing to Advertisers mention The National Nurseryman.

WANTED.

One or two parties with \$10,000 cash to take interest in a well established nursery doing a large mail order business. The demand for nursery stock in the south for the past five years has been greater than the supply. In the past two years this nursery has refused orders for over 2,000,000 trees and 5,000,000 berry plants.

We have now growing on ideal land suitable for irrigation 1,000,000 young peach trees and acreage to grow 10,000,000 strawberry plants. All this stock will be ready to put on the market in Nov. 1903.

Parties desiring to take interest in this nursery should correspond with the owner at once. Address

H. LIGHTFOOT,

Chattanooga,

Tenn.

CHARLES DETRICHE, Senior,

ANGERS, FRANCE,

Grower and Exporter of Fruit Tree Stocks, Forest Trees and Ornamentals.

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriché would be glad to receive any horticultural catalogues or papers.

WE have to offer for the Spring Trade, Wealthy Apple, strong 7 feet. Early Harvest Pear, 7 feet. Marlboro Raspberry Plants of the best grade. Transplanted Evergreens, one to two feet and two to three feet. Seedlings of White Spruce and American Larch, 8 to 20 inches. Always in stock, our Dry Baled Sphagnum Moss both in Burlaped and Wired Bales of the best quality.

Z. K. JEWETT & CO., SPARTA, WISCONSIN.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

APPLE GRAFTS

We please our customers in this line by grafting each order by itself and making any style to suit. We are now putting up One Hundred Thousand per day, and expect to close our grafting soon. Your early order will be appreciated. Thirty-three years experience.

APPLE SEEDLINGS

We still have a small supply in No. 1 and No. 2 grades. Can make shipment promptly.

**We
carry a large
and
complete line of
Nursery Stock**

**Write for Spring
Wholesale Trade**

**List if you
haven't received
a copy.**

FOREST TREE SEEDLINGS

We have a good Stock of Ash, Box Elder, Catalpa, Maple, Russian Mulberry and Black Walnut Seedlings. They are nursery grown and carefully graded.

OSAGE ORANGE PLANTS

A large stock of both one and two year. We can supply a grade of two year plants running 1-4 inch and up, extra heavy.

Apple, Cherry, Pear, Peach, Plum, Small Fruits, Grape Vines, Roses, Shrubs, etc. Acres of Shade and Ornamental Trees.

Our large storage cellars, which cover more than an acre of ground, enable us to make prompt shipment in early spring. A side track enters our storage and runs full length of same. Exposure of stock is reduced to a minimum. Correspondence invited.

SHENANDOAH NURSERIES

D. S. LAKE, PROPRIETOR

SHENANDOAH,

IOWA.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

HAVE TO OFFER

APPLE, CHERRY, PEACH

(2 and 3 yr.) (1 and 2 yr.)

PLUM AND APRICOT

KEIFFER PEAR

(1 and 2 yr.)

SHADE TREES

Elm, Ash, Box Elder

Maple, Weeping Mulberry

APPLE SEEDLING

JAPAN PEAR SEEDLING

MAHALEB SEEDLING FOREST TREE SEEDLING

Osage, Elm, Catalpa, Maple, Honey Locust.

GRAPE VINES

BECHTEL'S FLOWERING CRAB

When writing to Advertisers mention The National Nurseryman

B. & A. SPECIALTIES

Evergreens, Hardy Herbaceous Plants, including Phlox, Iris, Paeonias, Campanula, Anemone, and numerous other varieties.

Also quantities of H. P. Roses, Standard Roses, Clematis, Rhododendrons, Hardy Azaleas, California Privet, Palms, Bay Trees, Boxwood, etc.

Ask for quotations on any stock you cannot find, and prices will be quoted promptly.

When in New York do not fail to visit our Nurseries. We are only a short distance from New York City on the Erie R. R., Rutherford, N. J., being the first station on the road.

Bobbink & Atkins,

Nurserymen and Florists,

RUTHERFORD,

New Jersey.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries

W. C. REED, Proprietor

VINCENNES,

INDIANA

SPECIAL

We are long on the following and will make very low prices to close out all stock in fine condition and can ship quick.

APPLE

3-4 up and 5-8 to 3-4, fine lot Baldwin, Mann, Belleflower, Jannetts, etc.

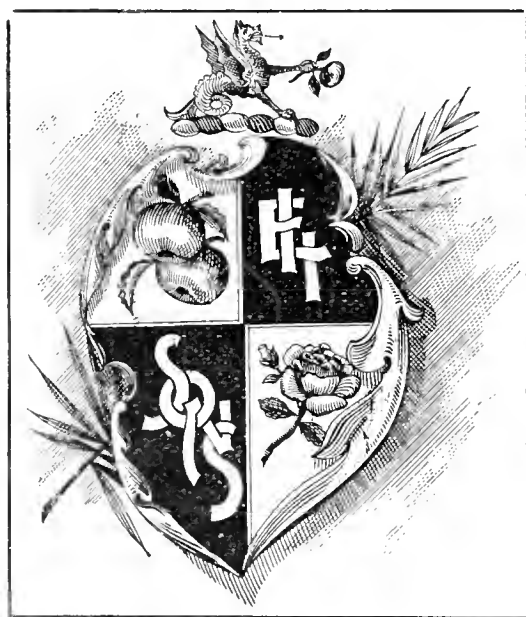
PEACH

Medium and 3 to 4, 2 to 3 and 1 to 2 feet. Fine Assortment.

Standard and dwarf pear 3-4 and 5-8.

WRITE QUICK

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

CHOICE STOCK

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES, CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

We offer for Spring 1903 one of the largest and most complete lines of General Nursery stock on the market.

Fine Stock
Good Assortment

Kieffer and
Bartlett

APPLE

CHERRY

PEAR

PLUM, PEACH, SMALL FRUITS, SHADE AND
ORNAMENTAL TREES, SHRUBS, VINES,
ROSES, ETC. FRUIT TREE STOCKS, OSAGE
ORANGE

FOREST TREE SEEDLINGS

Correspondence and Inspection Invited.

Mount Arbor Nurseries

E. S. WELCH, Proprietor.

Shenandoah, - Iowa.

New Haven Nurseries

NEW HAVEN, MO.

—SURPLUS—

APPLE, PEACH
PEAR, PLUM

Strictly high grade. Over 200,000 Elberta
Correspondence and personal inspection of
stock is invited. Location, 67 miles west of
St. Louis, on main line of the Mo. Pac. R. R.
Missouri River uplands.

New Haven Nurseries

NEW HAVEN, MO.

When writing to Advertisers mention The National Nurseryman.

75,000 CHOICE 75,000 Perennial Phlox

One of our Leading Specialties

Strictly first class varieties, distinct and decided colors; strong field grown plants that were cut back and potted up into three inch pots late in the fall, with from 3 to 6 eyes, that will make a better display of flowers than plants dug from the fields; this stock must not be confounded with small winter propagated plants such as are usually sent out.

Athis. Deep pink, overlaid salmon, crimson eye
Andreas Hoffer. A fine early white
Aquillon. Carmine rose, shaded salmon, crimson eye
Bridesmaid. Pure white with large crimson eye
Beranger. White suffused pink, crimson eye
Blanc Nain. Large dwarf white
Bouquet Fleur. White, with deep rose eye
Crystal Palace. White, with lilac markings and center
Cross of Honor. Magenta, bordered white, in the form of a maltese cross
Cyclon. White, suffused rosy lilac, dark rose eye
Champs Elysee. Fine rich purplish crimson
Duguesclin. White, with dark crimson center
Eclairer. Purplish crimson, very bright, with light halo
Esclarmonde. Lilac suffused white, deep rose colored eye
Etoile du Nord. Purplish crimson
Eugene Danzenvillier. Lilac with white edge and center
Faust. Pure white with cherry-red eye
Henry Murger. White with bright rose eye
Jeanne D'Arc. A fine late white
Jules Finger. Tender rose with deep rose eye
Lilipot. Bright magenta with crimson eye
La Fondre. Deep purplish crimson
La Nuit. Deep purplish crimson
La Vague. Soft rosy pink with red eye
Lothair. Salmon red with carmine eye
Mlle Marie Kuppenheim. A good dwarf, pure white
M. Marey. Salmon rose with deeper center
Marquis de St. Paul. Deep rose, overlaid, salmon
Michael Cervantes. Pure white with bright red eye
Mrs. Dora Umgeller. Rich deep rose; a strong variety
Moliere. Salmon rose, deep rose eye
Nettie Stewart. Pure white, occasionally marked rose
Ornament. Rosy magenta with crimson eye
Professor Schlieman. Salmon rose with carmine eye
Peach Blow. Delicate pink with white markings
Pantheon. Fine deep salmon rose, free and effective
Pacha. Deep rose with bright eye
P. Bonnetin. Magenta overlaid salmon
Robert Werner. Tender rose with deep rose eye
Semiramis. Purplish magenta
Simplon. White suffused lilac, dark rose center
Sylphide. Light rose and white with deep center
Schlossgartner Reichenau. Bright rose, dwarf and free
Sunshine. Salmon pink with deep red eye
Thebaide. Dwarf salmon red with crimson eye
Wm. Muhle. Salmon pink with dark crimson eye
Zouave. Largest purplish crimson, red eye

Any of the above varieties 75 cents per doz.; \$6.00 per 100; \$50.00 per 1000.

Three Choice Red Phlox

Varieties that are always scarce

Coquelicot. A fine pure scarlet with deep carmine eye
Jocelyn. Bright salmon red, very brilliant
Matador. Bright orange scarlet, cherry-red eye
 \$1.00 per dozen; \$8.00 per 100.

For anything that you may require in the line of Hardy Perennials, refer to our wholesale list which is mailed free to the trade.

HENRY A. DREER,
 714 Chestnut St. PHILADELPHIA

When writing to Advertisers mention The National Nurseryman.

W. T. HOOD & CO., OLD DOMINION NURSERIES.

RICHMOND, VA.

OFFER FOR FALL 1902 AND SPRING 1903

First class Peach, Apricots, fine lot of Sugar Maples, Silver, Norway and Weirs Cut Leaf Maples, Linden, American Linden, and Carolina Poplars. 100,000 California Privet, one and two year; 20,000 Citrus Trifoliata, two and three year; and 50,000 Silver Maple Seedlings.

Samples and prices on application.

W. T. HOOD & CO., OLD DOMINION NURSERIES,
 RICHMOND, VA.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
 Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

The Snow Hill Nurseries,

WM. M. PETERS' SONS,

R. F. D. Route.

SNOW HILL, MARYLAND.

Having practically sold the bulk of our fruit trees, we offer for delivery Spring, 1903: Three millions of well rooted Strawberry Plants, all from plants set the past Spring, of the following varieties:

Auto	Hoffman	Ruby
Bubach No. 5	Jessie	Sample
Bismark	Jersey Markett	Senator Dunlap
Brandywine	Johnson's Early	Sunrise
Blonde	Kansas	Sharpless
Crescent	Lady Thompson	Saunders
Cyclone	Marshall	Shepard
Duffs	Mitchell's Early	Seaford
Drowth King	Nickomer	Tubbs
Elno	New York	Tillman's Favorite
Enormous	Ocean City	Tennessee
Gandy	Parker Earl	Up-to-Date
Glenmary	Parson's Beauty	Wolverton
Gladstone	Pride of Cumberland	Warfield
Greenville	Ridgeway	

Also a fine lot of California Privet, and 500,000 Asparagus Roots, 2 year, in the following varieties: Conover Colossal, Barr's Mammoth, Palmeto. Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

SURPLUS WILLOWDALE NURSERIES.

California Privet. Osage Orange, 1 year and 2 year. Carolina Poplars, 1 to 4 inch. Mossy Cup. English Pin and Scarlet Oaks. Salisburias. American Elms. White Dogwoods. Horse Chestnuts. Norway, Silver, Sycamore and Sugar Maples. English Walnuts. English Filberts. Butternut. American Persimmons. A good assortment of Apple Trees, $\frac{3}{4}$, $\frac{5}{8}$ and $\frac{1}{2}$ inch grades. Japan Plums, 1 yr, $\frac{5}{8}$ in. Peach Trees, 9-16. $\frac{1}{2}$, $\frac{3}{8}$ and $\frac{1}{4}$ inch grade. Evergreens in assortment.

RAKESTRAW & PYLE, Kennett Square, Pa.

Pioneer Nurseries Company

BOX 1406,

SALT LAKE CITY, - UTAH.

OFFERS FOR SPRING, 1903, SHIPMENT:

STANDARD APPLES, including BEN DAVIS, GANO, Etc.

STANDARD PEARS, including a fine lot of BARTLETT. We are also headquarters for the ROSSNEY PEAR, introduced by us, the best of its season.

PLUMS and PRUNES, both on plum and peach stocks. Also a large assortment of GENERAL NURSERY STOCK.

HILL'S EVERGREEN NURSERIES

intend to keep at the head for hardy, nursery grown trees for the nursery trade. A general assortment of seedling varieties, all sizes. A large supply of Douglas, Hemlock, and White Spruces. A grand lot of the famous Rocky Mountain Blue Spruce and Concolors. White, Scotch, Austrian and Dwarf Mountain Pines. Arborvites, etc. Over two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

AN ACQUISITION HAYMAKER THE NEW RASPBERRY

It is a step in advance of anything yet introduced. Do not fail to send for circular. Plant 1,000 at once and have a stock of plants for sale. It is a winner. Special inducements to Nurserymen. Our usual stock of

EVERYTHING IN SMALL FRUIT PLANTS

Strawberries, Raspberries, Blackberries, Dewberries, Currants and Gooseberries.

200,000 ASPARAGUS ROOTS

Two-year old; price very low. Also Rhubarb, Horse Radish, Cuttings, etc. Send for our wholesale list.

W. N. SCARFF, NEW CARLISLE, O.

RAFFIA Best grades of Madagascar Raffia for Nurserymen.

Orders for bale (225lbs.), or more from stock or for direct import. Write for prices.

McHUTCHISON & CO., 18 Fulton St., NEW YORK.

When writing to Advertisers mention The National Nurseryman.

RED GULF CYPRESS Greenhouse Material

STRICTLY FREE FROM SAP

We carry in stock the largest assortment of air dried cypress in the north.

Send in your inquiries for

*Cypress and all other kinds
of Greenhouse Material,*

allowing us to submit prices and samples before you place your orders. We believe we can convince you of the superiority of our goods.

Greenhouse Heating and Ventilating Catalogue and Greenhouse Construction Catalogue will be sent on receipt of five cents postage for each.

LORD & BURNHAM COMPANY,

NEW YORK OFFICE, St. James Bldg., Broadway and 26th St.
GENERAL OFFICE AND WORKS, Irvington - on - Hudson, N. Y.

ASPARAGUS, 150,000 ^{Fine Two year} ^{Five Varieties}

Crab Apples, general assortment, two year.

Sweet Cherries, 2 year.

3000 Clematis Paniculata, heavy, two year, cheap.

5000 California Privet Hedge.

Norway and Colorado Blue Spruce and American

Arbor Vitæ, various sizes, extra quality.

Flowering Shrubs, best grade, general assortment, cheap.

Stock grown at Geneva, N. Y.

WHITING NURSERY CO

Boston, Mass.

STANDARD POTS.

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,

509 Arch Street,

PHILADELPHIA, Pa.

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and grove. For fence posts, telegraph and telephone poles, most lasting timber known. For best plants and prices write

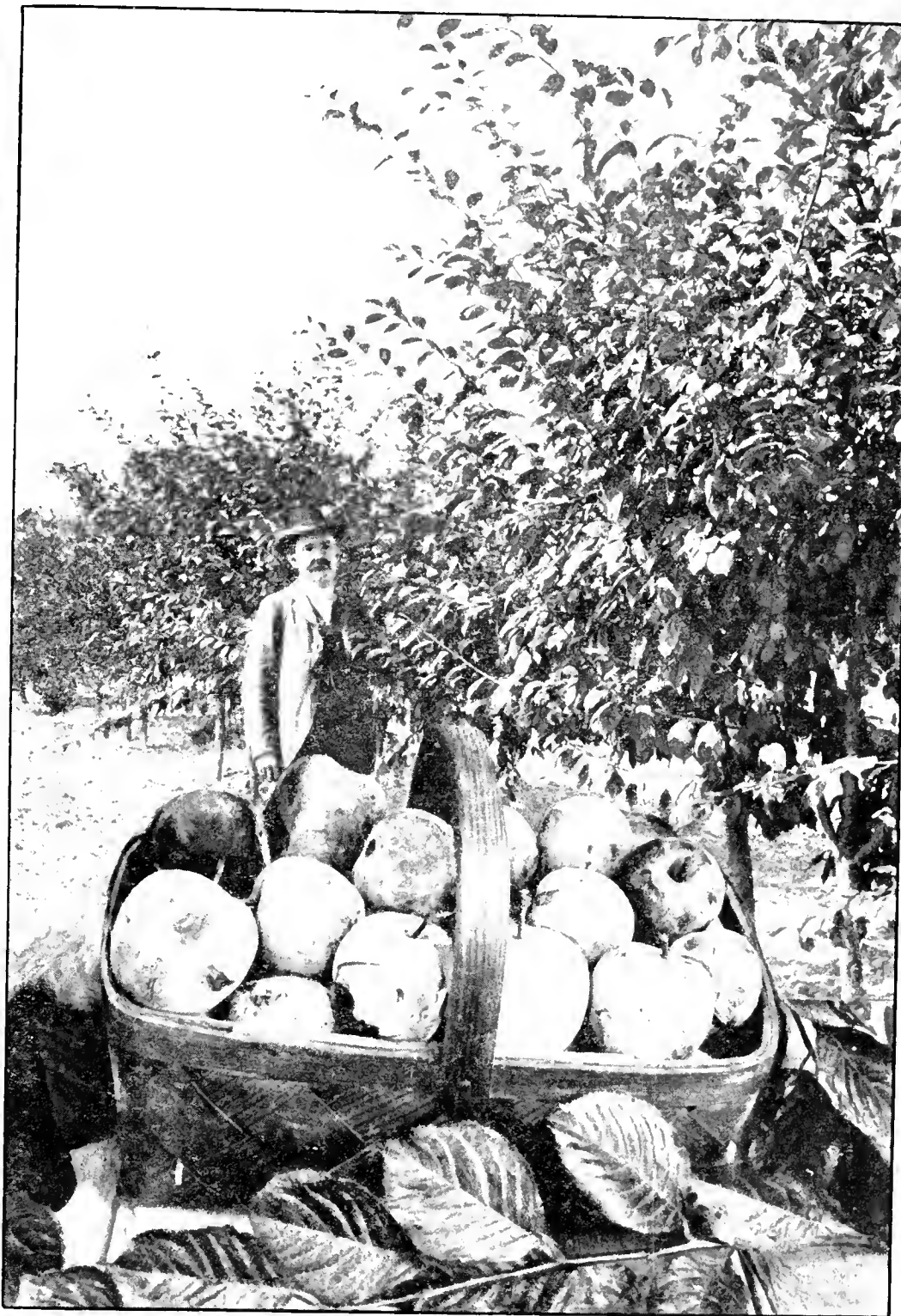
A. E. WINDSOR,

HAVANA, ILL.

When writing to Advertisers mention The National Nurseryman.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

*The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty*



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

*Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL*

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902

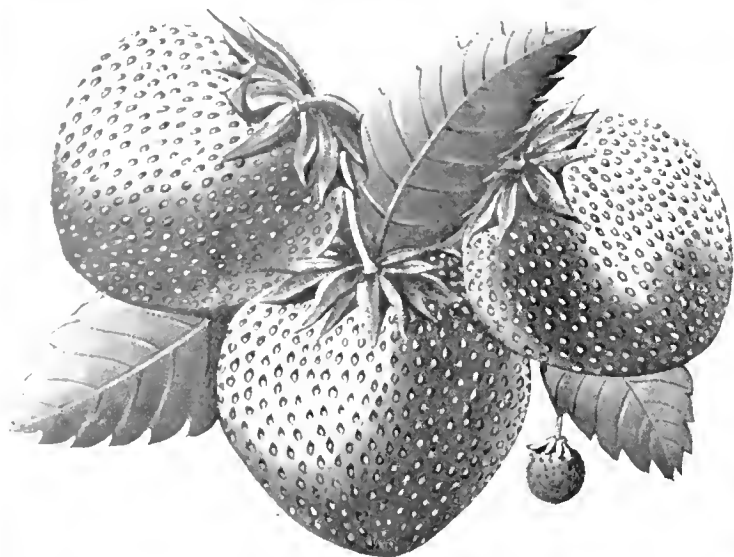
LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

STRAWBERRY PLANTS

Tied 27 in Bunch. Packed in Slatted Crates.



10,000 Aroma
50,000 Bubach
25,000 Brandywine
5,000 Bismarck
5,000 Bartons
40,000 Beder Wood
10,000 Clyde
100,000 Crescent
50,000 Excelsior
2,000 Eleanor
50,000 Gandy
50,000 Glen Mary
100,000 Haverland
1,000 Hero

50,000 Johnson's Early
5,000 Jessie
10,000 Kansas
20,000 Lady Thompson
1,000 Lovetts
1,000 May Queen
5,000 Marie
No. C,
10,000 Marshall
1,000 Margaret
5,000 McKinley
25,000 Mitchell's Early
5,000 Nick Ohmer
50,000 Ocean City

100,000 Parsons
5,000 Paris King
10,000 Parker Earle
10,000 Rough Rider
25,000 Star
1,000 Saunders
25,000 Sharpless
20,000 Sample
50,000 Tennessee
2,000 Tubbs
25,000 Warfield
1,000 Woolverton
5,000 Wm. Belt
10,000 Wilson

ASPARAGUS

20,000 Columbian Mammoth White
20,000 Donald's Elmira
20,000 Palmetto
20,000 Barr's Mammoth
20,000 Conover's Colossal

STANDARD PEARS

	5/8	1/2
Krull	200	200
Clapp's Favorite	800	1500
Flemish Beauty	900	1000
Henry	217	
Belle Luerative	100	100
Hoosae	50	50

Bartlett	800
Doyenne	120
Howell	150
Idaho	100
Marga	60
Lawrence	1000
Anjou	480
Lawson	
Sheldon	200

DWARF PEARS

	3/4	5/8	1/2
Dutchess	500	200	100
Clapp's Favorite	200	300	300
Worden Seekle	100	200	
Kieffer			168

KIEFFER PEARS

500 3/4 inch up, 5 to 7 ft.
800 5/8 inch, 5 to 6 ft.
4500 1/2 to 5/8 inch, 4 to 6 ft., one year.
8000 3 to 4 ft., one year.
5000 2 to 3 ft., one year.

Black Walnut.. 500 1 in. & up. 500 3/4 & up

100 Carolina Poplars..... 8 to 10 ft.
100 Silver Maples..... 8 to 10 ft.
50 Norway Maples..... 8 to 10 ft.

APPLE TREES

	5/8 5 to 6 ft.	9-16 4 to 6 ft.	1/2 4 to 5 ft.	3/8 3 to 4 ft.
Arkansas Black	200	200	200	100
Amer. Gold. Russett	500	1000	1000	500
Baldwin	500	1500	425	500
Dominie	100	200	200	100
Duch. of Oldenberg	500	1000	1000	500
Early Strawberry	2000	2000	2000	800
Early Harvest	1500	1275	900	900
Fallawater	1000	1000	1000	500
Fall Rambo	1000	500	1000	500
Gen. Grant Crab	50	50	50	
Greenville	500	500	500	200
Gravenstein	500	500	500	200
Golden Sweet	500	500	500	200
Haas	500	500	500	200

Huntsman's Fav'rite	100	100	100	50
Hyslop	100	100	100	50
Jonathan	3000	2000	3000	2000
King	1500	1000	1500	900
Lankford Seedling	1000	1000	1000	500
Limber Twig	1000	1000	1000	500
Mann	200	200	200	100
Maiden's Blush	3000	3000	3000	2000
Missouri Pippin	1500	2000	2000	1000
Northern Spy	3500	2500	3000	2000
N. W. Greening	3000	2500	2500	1500
Newtown Pippin	500	500	500	200
Pewaukee	500	500	500	200
R. I. Greening	1500	1500	2000	1000
Rome Beauty	500	1500	2500	1500
Red June	1500	1500	1500	500
Rambo	200	200	200	100
Red Astrachan	2000	2000	2000	900

Roxbury Russett	100	100	100	....
Stark	2170	2700	1275	900
Summer Rambo	1500	1500	1500	700
Scott's Winter	1000	1000	1000	500
Smith's Cider	2000	1500	2000	900
Tallman Sweet	1000	1000	1000	500
Transcendent Crab	50	50	50	....
Wine Sap	2000	3000	3000	1500
Whitney	50	50	50	....
Willow Twig	1000	1000	1000	500
Wolf River	50	50	50	....
Wealthy	1000	1000	2000	1000
W. W. Pearmain	1000	1000	1000	500
York Stripe	1000	1000	1000	500
Yellow Transparent	3000	3000	2000	1500
Yellow Bellflower	2000	2000	2000	1000

PEACH, ONE YEAR FROM BUD.

	3/8, 3 to 4 ft.	2 to 3 ft.
Alexander	100	200
Bilyeu's Late October	3000	6000
Bronson	200	400
Barber	200	400
Burke	100	200
Bokara	200	400
Barnard's Early	100	200
Beauty Blush	100	200
Bray's R. R.	200	400
Coolridge Favorite	100	200
Crawford's Late	4000	6000
Champion	2000	4000
Chair's Choice	....	4000
Crawford's Early	3000	5000
Carman	....	1000
Crosbey	1000	2000
Christiana	200	400
Conkling	200	400
Capt. Ede	200	400
Chinese Cling	100	....
Connecticut	200	200
Denton	300	500
Elberta	3000	6000

Early Rivers	1000	2000
Early York	200	500
Early Toledo	100	200
Early Davidson	100	200
Emma	200	400
Early Michigan	200	400
Fitzgerald	1000	2000
Foster	500	1000
Fox Seedling	1000	2000
Ford's Late White	1000	2000
Greensboro	500	1000
Geary's Holdon	4000	5000
Globe	1000	2000
Gold Drop	100	300
Hill's Chili	1000	3000
Hale's Early	500	1000
Kalamazoo	500	1000
Lodge	200	500
Lorentz White	500	1000
Mt. Rose	3500	7000
Moore's Favorite	200	500
McCollister	200	500
New Prolific	1000	2000
Old Mixon	500	1000
Picquet's Late	1000	2000

Reeve's Favorite	2000	4000
Salway	4000	8000
Stephen's R. R.	1500	3000
Stump	600	2000
Smock	6000	9000
Sneed	1000	2000
Triumph	1000	2000
Wheatland	2000	4000
Wonderful	2500	1000
Waddell	....	1000
Walker's V. Free	....	500
Wager	100	200
Ward's Late	100	300
Yellow St. John	3000	6000

1 to 2 ft. 6 to 12 in.

Geary's Holdon	2000	1000
Salway	2000	1000
Wonderful	2000	1000
Crawford's Late	2000	1000
Elberta	5000	....
Picquet's Late	500	500
Reeve's Favorite	1000	500
Bilyeu's Late October	2000	500
Smock	5000	3000

Plants, Roots and Trees in Good Condition. Send for our Wholesale Price List to-day.

J. G. HARRISON & SONS, - BERLIN, Md.



May, 1903.

Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville & Nurseries

Stand at
the Head

In Acres of Land and Greenhouses
In Storage Cellars and Packing Houses
In Amount of Stock handled
In Variety of Stock grown



Fruit and Ornamental
Trees, Nut Trees
Small Fruits, Grape
Vines, Roses, Shrubs
Climbing Vines, Bulbs
Hardy Herbaceous
and Greenhouse Plants



Catalogues and Price Lists free. Personal inspection cordially invited.
Pleased to quote prices on your list of wants—

The Storrs & Harrison Company

NURSERYMEN, FLORISTS *and* SEEDSMEN

Painesville, Ohio

TREES

Fruit and Ornamental.

Shrubs Roses Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.

MOUNT HOPE NURSERIES,
Rochester, N.Y.
Established 1840. Mention this paper.

AN ATTRACTIVE SPECIALTY FOR NURSERYMEN
—AND DEALERS IS OFFERED IN OUR—

NEW PEDIGREED CLIMBING ROSE DOROTHY PERKINS

A SEEDLING ROSE OF OUR OWN ORIGINATING.
AWARDED A SILVER MEDAL AT THE PAN-AMERICAN
—SEND FOR DESCRIPTIVE CIRCULAR.

Handsome Four Page Circulars will be furnished with customer's name, address, etc., imprinted at \$2.00 per 100, their actual cost.

Electrotypes of any of the cuts used in this circular will be furnished for catalogue use.

Handsome Lithographed Plates for Salesmen's Use will be supplied to concerns who employ agents. Samples mailed on application. We do not offer these plates for indiscriminate distribution but only for the use in salesmen's outfits. When furnished in considerable numbers, a memorandum charge of 1½ cents each will be made for them but such charge will be credited back upon orders for rose bushes of this variety.

FOR 1903-1904, STRONG, FIELD-GROWN
PLANTS, TWO YEARS OLD.

JACKSON & PERKINS CO.

Wholesale Nurserymen,
NEWARK, New York.

AUG. RHOTERT

(ESTABLISHED 1893.)

26 BARCLAY STREET.
P. O. Box 1250,

NEW YORK

TELEPHONE: 2855 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES. (Established 1795.) **Angers, (France)**

French Fruit and Ornamental Stocks, Specimen Evergreens and Ornamental Trees, Shrubs, Roses, Magnolias, etc., of best Quality, Packing, Grading. Prompt deliveries.

M. KOSTER & SONS. - - - **Boskoop (Holland)**

Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and Rhododendrons, Magnolias, Hydrangeas, fine Specimen Evergreens and Fancy Ornamental Trees. Careful Packing, complete and prompt deliveries.

Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) **Annan (Scotland)**

English Manettis, Norway Maples and Spruce, Birch, Beech, Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Quality, Grading and Packing.

TREE SEEDS. Apple and Pear Pips, Myrobalan, Mahaleb and Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!

Very Best Selected Fibre.

From Stock or for Import.

WHOLESALE ONLY.

Catalogues and special quotations on application.

When writing to Advertisers mention The National Nurseryman.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Apple Seedlings, and
Mahaleb, Pear Seed-
lings, Forest Tree
Seedlings, Apple
Scions*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

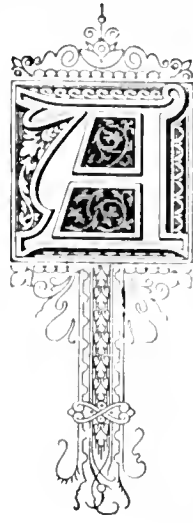
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Foreman and Propagator

AN experienced Nurseryman and Plantsman wants position. Married, 22 years experience in growing all kinds of nursery stock and greenhouse plants under glass and out doors for catalog and agent trade. Used to handling large force of help. Capable of taking full charge. A reference. Middle Western States preferred. Address

PERMANENT, care National Nurseryman

210 Kinds for 16c.
It is a fact that Salzer's seeds are found in more gardens and on more farms than any other in America. There is reason for this. We own and operate over 5000 acres for the production of our choice seeds. In order to induce you to try them we make the following unprecedented offer:
For 16 Cents Postpaid
25 sorts wonderful onions,
25 sorts elegant cabbage,
15 sorts magnificent carrots,
25 peerless lettuce varieties,
25 rare luscious radish,
20 splendid beet sorts,
75 gloriously beautiful flower seeds,
in all 210 kinds positively furnishing bushels of charming flowers and lots and lots of choice vegetables, together with our great catalogue telling all about Macaroni Wheat, Billion Dollar Grass, Teosinte, Bromus, Speltz, etc., all for only 16c. in stamps and this notice.
Onion seed at but 60c. a pound.
JOHN A. SALZER SEED CO.,
La Crosse, Wis.



American Arbor Vitae

Splendid Plants, 3 to 4 ft.

Special Price in Quantity.

ELLWANGER & BARRY

Mount Hope Nurseries

ROCHESTER,

NEW YORK

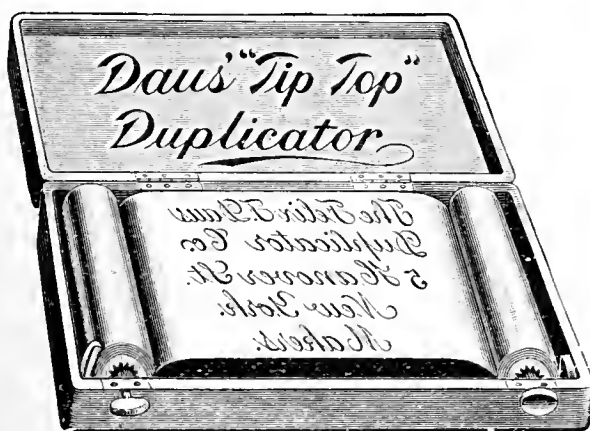
SLUG SHOT

Kills Insects on Currants, Potatoes, Cabbages and Flowers
USED 22 YEARS

SOLD BY SEEDSMEN EVERYWHERE

Send for Free Booklet on Bugs and Blights to

B. HAMMOND, FISHKILL-ON-HUDSON, NEW YORK



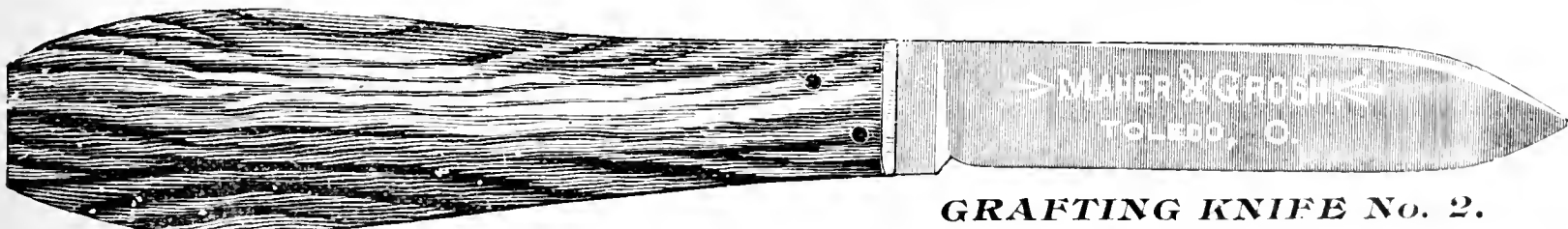
**WHAT IS "TIP-TOP"?
... DAUS'**

TO PROVE that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

100 copies from Pen-written and 50 copies from Type-written original
we are willing to send a complete "Duplicator" without deposit on **TEN DAYS** trial.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33 1/3 per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.



GRAFTING KNIFE No. 2.

Nurserymen's KNIVES

Hand forged. Razor steel. Warranted. Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and sent free to all who ask for one.

Cut is exact size of our Grafting Knife No. 2. Samp'e, by mail, 20 cents. 6 for \$1.00.

No. 1 has a "sheep foot" blade and is larger. Sample, by mail, 25 cents. 5 for \$1.00.

Budding Knife, riveted in handle, 25 cts. 12 for \$2.25, postpaid. Pocket Budder, 35 cents.

Pruning Knife, riveted in handle, 50 cents. 5 for \$2, postpaid. Pocket Pruner, 75 cents.

Send for 12-Page Special Nursery Catalogue

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

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OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and grove. For fence posts, telegraph and telephone poles, most lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of
**Fruit and
Ornamental**
stock for fall
trade.

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubby
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

Office, Cutler Building

Nurseries at Brighton

**Nurserymen
Wanted.....**

EXPERIENCED BUDDERS at
Louisiana, Mo., Starkdale,
Mo., Farmington, Ark., Dansville,
N. Y. Apply on premises, or address
Stark Bro's N. & O. Co.,
Louisiana, Mo.

ALBERTSON & HOBBS

Nine miles west of Indianapolis.
Vandalia Railroad Line.

Bridgeport Marion Co., Indiana.

R. R. Switch into our Packing House.
"New Telephone" in Office.

350 ACRES OF TREES, &c.

FOR FALL 1902 AND SPRING 1903.

We will be prepared to furnish **APPLE, PEAR, PLUM, CHERRY**, and a complete general line of Nursery Stock, including a complete assortment of varieties—in carload lots, as we have coming on the largest supply we have ever had.

Also **SILVER, NORWAY and ROCK MAPLES, CAROLINA POPLARS, EVERGREENS, WEEPING TREES, SHRUBS, &c.**

The **POMONA CURRANT** (best of all).

APPLE SEEDLINGS—We expect to have a large and fine lot of seedlings.

PEACH PITS, &c. Also **IMPORTED SEEDLINGS.**

The best **NURSERY SPADES.**

EXCELSIOR (baled)—the best packing material far better and cheaper than Moss. Ask Storrs & Harrison Co., and others who have been using it. Ask for prices per ton and in carload lots. Order early. Supply limited.

Trade List ready about September 1st. Come and see for yourself.

Shipments of **APPLE, PEAR, PLUM and CHERRY** made from either Bridgeport, Indiana, or Dansville, N. Y.

Shipments of **APPLE SEEDLINGS** from either Bridgeport, Indiana, or Topeka, Kansas.

Traveling Salesman

familiar with Nursery Line:—
Young, energetic, sober and
representative business man for visiting the Wholesale
Trade and Growers in well established lines of European
Cultures. State references, age, experience and Salary want-
ed. Address: "Strictly Confidential" care of the National
Nurseryman, Rochester, N. Y.

RAFFIA FIBER

Best Nurseryman's Grade

ALWAYS ON HAND

APPLY TO

August Rölker & Sons
NEW YORK,

31 Barclay St.

P. O. Box 752

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FRUIT STOCKS

If you are short on your fruit stocks for spring planting, write at once for our SPECIAL CIRCULAR, "BOX-LOTS-REDUCED PRICES." It is an opportunity to get some good bargains.

MAZZARD CHERRY SEED Only a few bushels unsold.

HYDRANGEA P. G. 2 to 2½ feet—bushy plants.

BECHTEL'S DOUBLE FLOWERING CRAB

Strong, 3 feet. 3 to 4 feet. 4 to 5 feet.

OAKS We have the largest stock in America. Our trees are particularly strong, healthy and well rooted. We also have a large quantity of seedling Oaks for nursery planting.

CALIFORNIA PRIVET For hedging, 1 to 2 feet, 1 year, 2 to 2½ feet, and 2½ to 3 feet. We are headquarters for Privet. Have also several thousand COM. MON PRIVET.

HERBACEOUS PLANTS This is a special department, under the charge of an experienced superintendent. We have an immense stock of all the good things in this line.

RAFFIA The wise nurseryman will arrange for his summer supply immediately. Prices are not only advancing but the late buyer may find it difficult to get the goods. Remember we import direct. No middleman.

THOMAS MEEHAN & SONS, Incorporated
Wholesale Department. DRESHERTOWN, MONT'G CO., PA.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

HAVE TO OFFER

APPLE, CHERRY, PEACH
(2 and 3 yr.) (1 and 2 yr.)

PLUM AND APRICOT

KEIFFER PEAR
(1 and 2 yr.)

SHADE TREES

Elm, Ash, Box Elder

Maple, Weeping Mulberry

APPLE SEEDLING

JAPAN PEAR SEEDLING

MAHALEB SEEDLING FOREST TREE SEEDLING

Osage, Elm, Catalpa, Maple, Honey Locust.

GRAPE VINES

BECHTEL'S FLOWERING CRAB

When writing to Advertisers mention The National Nurseryman

Ventilating Apparatus That Ventilates

WITH EASE AND PRECISION

For Greenhouses

SELF-OILING apparatus especially adapted for commercial houses.

There is no better on the market and it is sold at reasonable prices for high grade machinery.

Fully illustrated in our Greenhouse Heating and Ventilating Catalogue which will be mailed for five cents to cover postage (also circulars for greenhouse material).

LORD & BURNHAM COMPANY

NEW YORK OFFICE, St. James Building, Broadway and 26th Street.
GENERAL OFFICE AND WORKS, Irvington-on-Hudson, New York

APPLES 100,000 2 and 3-year-old, in large assortment, as fine as grows.

PEACH 185,000. 50 leading sorts from Southern Natural Pits grown on new land.

ASPARAGUS 1,250,000 Fine, Strong 1 and 2-year plants. Palmetto, Barr's, Donald's and Giant Argenteuill.

These are our specialties for the trade and we invite correspondence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia Dewberries, and Large Norway Maples.

WEST JERSEY NURSERY CO.

STANTON B. COLE,

BRIDGETON, N. J.

The Century Sprayer

a small cut of which is shown in this advertisement, offers more advantages to the orchardist, fruit grower, etc., than any other spraying outfit on the market.



Frass cylinder, brass valves, "everlasting" fabric plunger packing and the only thoroughly reliable agitator.

Cylinder 2½ ins., stroke 5 ins. Then, too, it sells at a lower price than other good pumps. Send for handsome free catalogue, showing full line of pumps and twenty varieties of sprayers.

THE DEMING CO., Salem, O.
Western Agents—Hendon & Hubbell, Chicago, Ill.

WANTED

Two good all round men for general nursery work, and who understand thoroughly the growing of apple and peach trees. Must be first-class budders and grafters, perfectly sober and reliable. Steady employment. Address with reference,

VILLAGE NURSERIES, Harnedsville, Pa.

When writing to Advertisers mention The National Nurseryman.

Albaugh Nursery AND ORCHARD CO.

IN SURPLUS, in cellars in fine order:

PEACHES

75,000 first class, one-third Elberta.

APPLES

15,000, $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, leading varieties.

PEARS

5,000, 11-16 and up, first-class. Bartlett, Seckle, Kieffer, etc.

CHERRY

5,000, 2 yrs. Sour varieties, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

PLUM

1000, on plum, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

February 1st, 1903—First come, first served. Prices fair.

Albaugh Nursery & Orchard Co.
PHONETON, O.

Inspector's certificate on all shipments.

B. & A. SPECIALTIES

Evergreens, Hardy Herbaceous Plants, including Phlox, Iris, Paeonias, Campanula, Anemone, and numerous other varieties.

Also quantities of H. P. Roses, Standard Roses, Clematis, Rhododendrons, Hardy Azaleas, California Privet, Palms, Bay Trees, Boxwood, etc.

Ask for quotations on any stock you cannot find, and prices will be quoted promptly.

When in New York do not fail to visit our Nurseries. We are only a short distance from New York City on the Erie R. R., Rutherford, N. J., being the first station on the road.

Bobbink & Atkins,

Nurserymen and Florists,

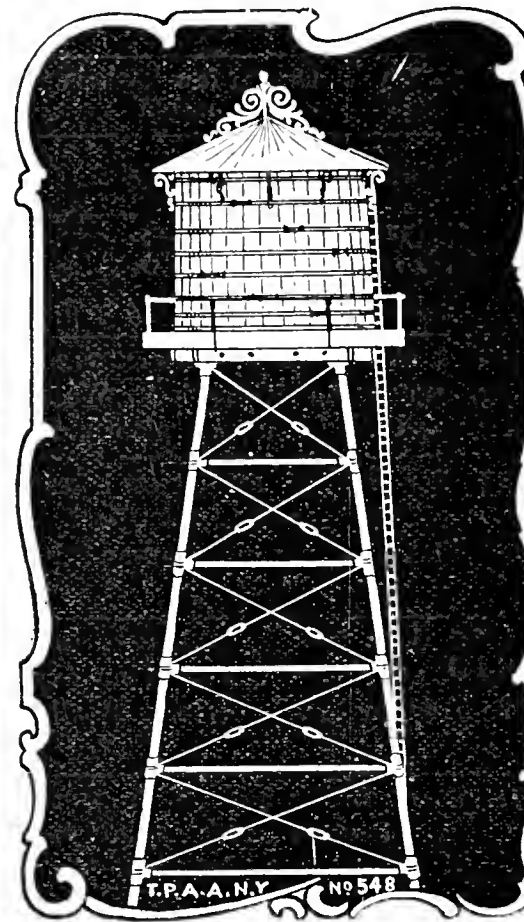
RUTHERFORD,

New Jersey.

When writing to Advertisers mention The National Nurseryman.

Absolutely safe and reliable. Ask your friends

YOUR GREENHOUSES



need water at all times

**A CALDWELL
CYPRESS TANK**

ON A

**CALDWELL
STEEL TOWER**

can be depended upon to give it to you. You won't find the contents of the tank half gone because of leaks. The RED GULF CYPRESS is the best wood for use in water tanks and we employ no other kind. The towers are built of best mild steel and will safely hold the tank.

Our catalogue is full of interesting details and tells all about our TANKS and TOWERS.

W. E. CALDWELL CO.,
LOUISVILLE, KY.

KNOX NURSERIES 1851 1903

WE OFFER FOR SPRING

the following well grown, thrifty stock. We shall be pleased to quote price on application.

APPLE. 2 and 3 year, mostly $\frac{3}{4}$ and up. Ben Davis, Grimes, Ingram, Jonathan, Y. Imperial, Akin, N. W. Greening, Wine Sap, etc.

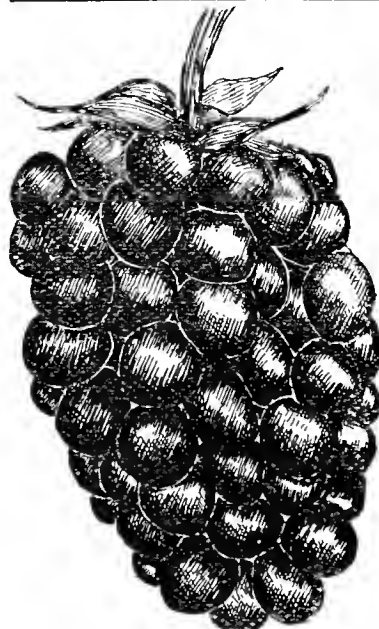
CHERRY. 1 year, $\frac{5}{8}$ and all up. Fine stock of elegant trees.

PEACH. 9 16 and up, and some small grades. Elberta and leading sorts.

KANSAS RASPBERRY TIPS.

SNYDER BLACKBERRIES. Sucker plants.

H. M. SIMPSON & SONS,
VINCENNES, IND.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

SPECIMENS

NORDMAN'S FIR AND EASTERN SPRUCE

THREE TO FOUR FEET.

Hemlock Spruce, 3 to 6 feet. Weeping Spruce, (*Picea excelsa inverta.*) Splendid odd specimens, 4 to 10 feet high, \$2.00 to \$25.00 each. Deciduous or "bald" Cypress, 8 to 10 feet. Viburnum Tomentosum, 4 to 5 feet, fine bushes. Ligustrum Iboia (true) 4 to 6 feet. Althea, Double White Standards, 7 to 8 feet; stems 4 to 5 feet, 3-year heads. All recently transplanted. Ask for descriptive catalogue and spring trade list of CHOICE STOCK.

SAMUEL C. MOON, - MORRISVILLE, PA.
MORRISVILLE NURSERY.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,
509 Arch Street, PHILADELPHIA, Pa.

A large stock of Clematis, leading varieties.
Not Quite a Million but an Immense Quantity.
Write for Prices.
P. W. Butler, East Penfield, N. Y.

E. T. DICKINSON, Chatenay Seine,
GROWER AND EXPORTER, France.
HAS TO OFFER FRENCH NURSERY STOCKS, DUTCH BULBS, GLADIOLI, &c.
Fruit Tree Seedlings and Ornamentals. Pear, Apple, Plum and Cherry and Angers Quince Cuttings. All grown specially for the American trade. Pear and Crab Apple Seed. The most complete assortment of ORNAMENTAL STOCKS, TREES AND SHRUBS. Orders solicited and booked now at low rates.
E. T. DICKINSON, - - - 1 Broadway, New York.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2 1/2-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,
Proprietor of Beacon Building,
Highlands Nursery, N. C. BOSTON, MASS.

CHARLES DETRICHE, Senior,
ANGERS, FRANCE,
Grower and Exporter of Fruit Tree Stocks, Forest Trees and Ornamentals.

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriché would be glad to receive any horticultural catalogues or papers.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,
213-23 Pearl St., Norristown, Pa.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.
QUALITY UNSURPASSED.
A fine stock of Campbell's Early.
Catalogue and Price List Free.
Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.
T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,
39 AND 41 CORTLANDT STREET, NEW YORK.

Sole Agent for United States and Canada.

FOR SPRING 1903

Send Us Your Want List.

We have 150 000 Peach, including 25,000 Elberta; 250,000 Apple; also Pear, Cherry, Plum, and a general assortment of other stock. Asparagus, 1 and 2 year. Privet, extra fine, 1 year. Several thousand extra large Shade Trees. SURPLUS LIST NOW READY. We cellar no stock. All fresh from the nursery rows.

FRANKLIN DAVIS NURSERY CO.,
BALTIMORE, MARYLAND.

When writing to Advertisers mention The National Nurseryman.

75,000 CHOICE 75,000 Perennial Phlox

One of our Leading Specialties

Strictly first class varieties, distinct and decided colors; strong field grown plants that were cut back and potted up into three inch pots late in the fall, with from 3 to 6 eyes, that will make a better display of flowers than plants dug from the fields; this stock must not be confounded with small winter propagated plants such as are usually sent out.

Athis. Deep pink, overlaid salmon, crimson eye
Andreas Hoffer. A fine early white
Aquillon. Carmine rose, shaded salmon crimson eye
Bridesmaid. Pure white with large crimson eye
Beranger. White suffused pink, crimson eye
Blanc Nain. Large dwarf white
Bouquet Fleur. White, with deep rose eye
Crystal Palace. White, with lilac markings and center
Cross of Honor. Magenta, bordered white, in the form of a maltese cross
Cyclon. White, suffused rosy lilac, dark rose eye
Champs Elysee. Fine rich purplish crimson
Duguesclin. White, with dark crimson center
Eclairer. Purplish crimson, very bright, with light halo
Esclarmonde. Lilac suffused white, deep rose colored eye
Etoile du Nord. Purplish crimson
Eugene Danzenvillier. Lilac with white edge and center
Faust. Pure white with cherry-red eye
Henry Murger. White with bright rose eye
Jeanne D'Arc. A fine late white
Jules Finger. Tender rose with deep rose eye
Lilipot. Bright magenta with crimson eye
La Fondre. Deep purplish crimson
La Nuit. Deep purplish crimson
La Vague. Soft rosy pink with red eye
Lothair. Salmon red with earmine eye
Mlle Marie Kuppenheim. A good dwarf, pure white
M. Marey. Salmon rose with deeper center
Marquis de St. Paul. Deep rose, overlaid, salmon
Michael Cervantes. Pure white with bright red eye
Mrs. Dora Ungeller. Rich deep rose; a strong variety
Moliere. Salmon rose, deep rose eye
Nettie Stewart. Pure white, occasionally marked rose
Ornament. Rosy magenta with crimson eye
Professor Schlieman. Salmon rose with earmine eye
Peach Blow. Delicate pink with white markings
Pantheon. Fine deep salmon rose, free and effective
Pacha. Deep rose with bright eye
P. Bonnetin. Magenta overlaid salmon
Robert Werner. Tender rose with deep rose eye
Semiramis. Purplish magenta
Simplon. White suffused lilac, dark rose center
Sylphide. Light rose and white with deep center
Schlossgartner Reichenau. Bright rose, dwarf and free
Sunshine. Salmon pink with deep red eye
Thebaide. Dwarf salmon red with crimson eye
Wm. Muhle. Salmon pink with dark crimson eye
Zouave. Largest purplish crimson, red eye

Any of the above varieties 75 cents per doz.; \$6.00 per 100; \$50.00 per 1000.

Three Choice Red Phlox

Varieties that are always scarce

Coquelicot. A fine pure scarlet with deep carmine eye
Jocelyn. Bright salmon red, very brilliant
Matador. Bright orange scarlet, cherry-red eye
 \$1.00 per dozen; \$8.00 per 100.

For anything that you may require in the line of Hardy Perennials, refer to our wholesale list which is mailed free to the trade.

HENRY A. DREER,
 714 Chestnut St. PHILADELPHIA

When writing to Advertisers mention The National Nurseryman.

W. T. HOOD & CO., OLD DOMINION NURSERIES.

RICHMOND, VA.

OFFER FOR FALL 1902 AND SPRING 1903

First class Peach, Apricots, fine lot of Sugar Maples, Silver, Norway and Weirs Cut Leaf Maples, Linden, American Linden, and Carolina Poplars. 100,000 California Privet, one and two year; 20,000 Citrus Trifoliata, two and three year; and 50,000 Silver Maple Seedlings.

Samples and prices on application.

W. T. HOOD & CO., OLD DOMINION NURSERIES,
 RICHMOND, VA.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
 Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

The Snow Hill Nurseries,

WM. M. PETERS' SONS,

R. F. D. Route.

SNOW HILL, MARYLAND.

Having practically sold the bulk of our fruit trees, we offer for delivery Spring, 1903: Three millions of well-rooted Strawberry Plants, all from plants set the past Spring, of the following varieties:

Auto	Hoffman	Ruby
Bubaeh No. 5	Jessie	Sample
Bismark	Jersey Market	Senator Dunlap
Brandywine	Johnson's Early	Sunrise
Blonde	Kansas	Sharpless
Crescent	Lady Thompson	Saunders
Cyclone	Marshall	Shepard
Duffs	Mitchell's Early	Seaford
Drowth King	Niekomer	Tubbs
Elno	New York	Tillman's Favorite
Enormous	Ocean City	Tennessee
Gandy	Parker Earl	Up-to-Date
Glenmary	Parson's Beauty	Wolverton
Gladstone	Pride of Cumberland	Warfield
Greenville	Ridgeway	

Also a fine lot of California Privet, and 500,000 Asparagus Roots, 2 year, in the following varieties: Conover Colossal, Barr's Mammoth, Palmeto. Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902.

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

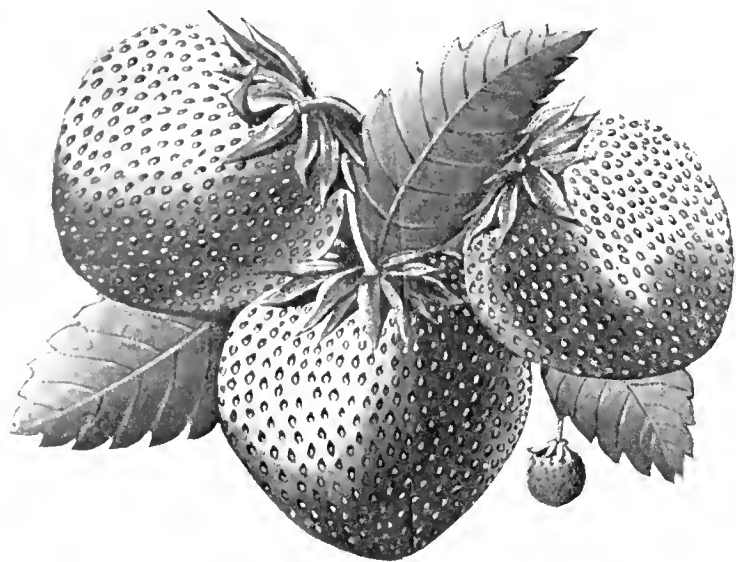


SURPLUS



STRAWBERRY PLANTS

Tied 27 in Bunch. Packed in Slatted Crates.



10,000 Aroma	50,000 Johnson's Early	50,000 Ocean City
25,000 Bennitte	50,000 Jesse	100,000 Parsons
50,000 Bubach	60,000 Kansas	5,000 Paris King
25,000 Brandywine	20,000 Lady Thompson	10,000 Parker Earle
20,000 Bismarck	40,000 Livingston	10,000 Rough Rider
5,000 Bush Cluster	20,000 Lovetts	25,000 Star
40,000 Clyde	1,000 May Queen	1,000 Saunders
100,000 Crescent	20,000 May Queen	125,000 Sharpless
5,000 Dayton	30,000 Marie	40,000 Sample
50,000 Excelsior	5,000 Marie	50,000 Tennessee
20,000 Eleanor	40,000 Marshall	25,000 Warfield
50,000 Gandy	2,000 Margaret	5,000 Wm. Belt
50,000 Glen Mary	5,000 McKinley	10,000 Wilson
100,000 Haverland	125,000 Mitchell's Early	
10,000 Hero	5,000 Nick Ohmer	

ASPARAGUS

5,000 Columbian Mammoth White
5,000 Donald's Elmira
5,000 Palmetto
5,000 Barr's Mammoth
5,000 Conover's Colossal

STANDARD PEARS

	$\frac{5}{8}$	
Clapp's Favorite	800	
Flemish Beauty	900	
Bartlett	800	
	$\frac{3}{4}$	$\frac{5}{8}$
Clapp's Favorite	200	300

KIEFFER PEARS

1,500 $\frac{1}{2}$ to $\frac{5}{8}$ inch, 4 to 6 ft., one year.
3,000 3 to 4 ft., one year.
3,000 2 to 3 ft., one year.

APPLE TREES

	$\frac{5}{8}$	9-16	$\frac{1}{2}$
	5 to 6 ft.	4 to 6 ft.	4 to 5 ft.
Amer. Gold. Russett . . .	600		
Dominie	100	200	200
Duch. of Oldenberg . . .	500	1000	1000
Early Strawberry	1000	1000	1000
Early Harvest	500	275	900
Fallawater	1000	1000	1000
Greenville	500	500	
Gravenstein	500	500	500
Golden Sweet	500	500	500
Haas	500	500	500
Huntsman's Fav'rite . . .	100	100	100

Hyslop	100	100	100
Jonathan	1000	1000	1000
King	1500	1000	1500
Limber Twig	1000	1000	1000
Mann	200	200	200
Maiden's Blush	1000	1000	1000
Missouri Pippin			1000
Northern Spy	500	500	
N. W. Greening	1000	1500	1500
Newtown Pippin	500	500	500
Pewaukee	500	500	500
R. I. Greening	500	500	1000
Red June	500	500	500
Red Astrachan	2000	2000	2000
Roxbury Russett	100	100	100

Stark	170	700	1275
Summer Rambo	500	500	500
Scott's Winter	1000	1000	1000
Tallman Sweet	1000	1000	1000
Transcendent Crab	50	50	50
Wine Sap	2000		
Whitney	50	50	50
Willow Twig	1000	1000	1000
Wolf River	50	50	50
Wealthy	1000	1000	2000
W. W. Pearmain	1000	1000	1000
York Stripe	1000	1000	1000
Yellow Transparent	1000	1000	1000
Yellow Bellflower	1000	1000	1000

PEACH, ONE YEAR FROM BUD.

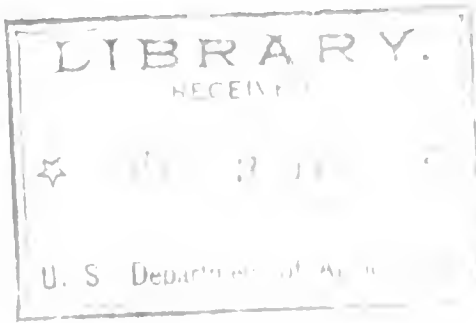
	2 to 3 ft.
Bilyeu's Late October . . .	6000
Bronson	400
Barber	400
Burke	200
Bokara	400
Barnard's Early	200
Bray's R. R.	400
Coolridge Favorite	200
Crawford's Early	5000
Carman	1000
Crosbey	1000
Conkling	400
Capt. Ede	400
Elberta	3000
Early Rivers	200

Early Toledo	200
Early Davidson	200
Emma	400
Early Michigan	400
Fitzgerald	1000
Foster	1000
Ford's Late White	1000
Greensboro	1000
Geary's Holdon	5000
Gold Drop	300
Hill's Chili	3000
Hale's Early	1000
Kalamazoo	1000
Lorentz White	1000
Mt. Rose	3000
Moore's Favorite	500
McCollister	500

New Prolific	1000
Old Mixon	1000
Picquet's Late	1000
Reeve's Favorite	3000
Salway	3000
Stephen's R. R.	2000
Stump	1000
Smock	3000
Sneed	1000
Triumph	1000
Wheatland	1000
Wonderful	1000
Waddell	1000
Walker's V. Free	500
Wager	200
Ward's Late	300
Yellow St. John	3000

Plants, Roots and Trees in good condition until May 15th.

J. G. Harrison & Sons,
BERLIN, MD.



June, 1903.

Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.

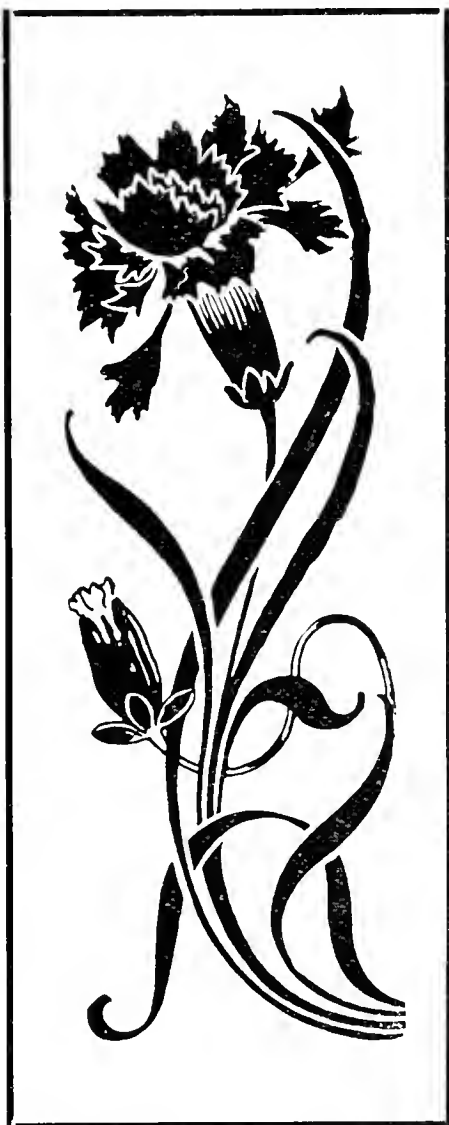


Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Offer one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds



One million Peach Trees, grown on bank of Lake Erie. No healthier, better trees can be produced.

Fine blocks 2 and 3 year Standard and Dwarf Pear, Apple, Cherries and Plums.

Call especial attention to our **Small Fruit Department**—immense stock all leading varieties, highest grade, packed right. Currants, Gooseberries, Blackberries, Raspberries, Grape Vines, Etc.

Roses — Largest acreage field-grown plants in the world.

Clematis—Large flowered and Paniculata, Ampelopsis Veitchii in large supply with all other leading varieties vines and shrubs. Ornamental Hedge Plants, California Privet, Japan Quince, Berberry Thunbergii, Purple and Green Leaf, Tartarian Honeysuckle, etc.

Direct importations from leading Holland, Belgium and French growers of Chinese Azaleas, Palms, Bulbs, etc.



Let us estimate on your list of wants. Special rates on car lots for fall shipment or stored for spring delivery. Personal inspection cordially invited : : : : : : : : : : :

CATALOGUES AND PRICE-LISTS FREE

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs Roses Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.

MOUNT HOPE NURSERIES,
Rochester, N.Y.

Established 1840. Mention this paper.

AN ATTRACTIVE SPECIALTY FOR NURSERYMEN
—AND DEALERS IS OFFERED IN OUR—

NEW PEDIGREED CLIMBING ROSE

DOROTHY PERKINS

A SEEDLING ROSE OF OUR OWN ORIGINATING.
AWARDED A SILVER MEDAL AT THE PAN-AMERICAN.
—SEND FOR DESCRIPTIVE CIRCULAR.

Handsome Four Page Circulars will be be furnished with customer's name, address, etc., imprinted at \$2.00 per 100, their actual cost.

Electrotypes of any of the cuts used in this circular will be furnished for catalogue use.

Handsome Lithographed Plates for Salesmen's Use will be supplied to concerns who employ agents. Samples mailed on application. We do not offer these plates for indiscriminate distribution but only for the use in salesmen's outfits. When furnished in considerable numbers, a memorandum charge of 1½ cents each will be made for them but such charge will be credited back upon orders for rose bushes of this variety.

FOR 1903-1904, STRONG, FIELD-GROWN
PLANTS, TWO YEARS OLD.

JACKSON & PERKINS CO.

Wholesale Nurserymen,
NEWARK, New York.

AUG. RHOTERT

(ESTABLISHED 1893.)

26 BARCLAY STREET.
P. O. Box 1250,

NEW YORK

TELEPHONE: 2853 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES. (Established 1795.) Angers, (France)

French Fruit and Ornamental Stocks, Specimen Evergreens and Ornamental Trees, Shrubs, Roses, Magnolias, etc., of best Quality, Packing, Grading. Prompt deliveries.

M. KOSTER & SONS. - - - Boskoop (Holland)

Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and Rhododendrons, Magnolias, Hydrangeas, fine Specimen Evergreens and Fancy Ornamental Trees. Careful Packing, complete and prompt deliveries.

Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) Annan (Scotland)

English Manettis, Norway Maples and Spruce, Birch, Beech Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Quality, Grading and Packing.

TREE SEEDS. Apple and Pear Pips, Myrobalan, Mahaleb and Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!

Very Best Selected Fibre.
From Stock or for Import.

WHOLESALE ONLY. Catalogues and special quotations on application.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Apple Seedlings, and
Mahaleb, Pear Seed-
lings, Forest Tree
Seedlings, Apple
Scions*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

When writing to Advertisers mention The National Nurseryman.

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This Colored Plate Drawn and Painted from Nature by

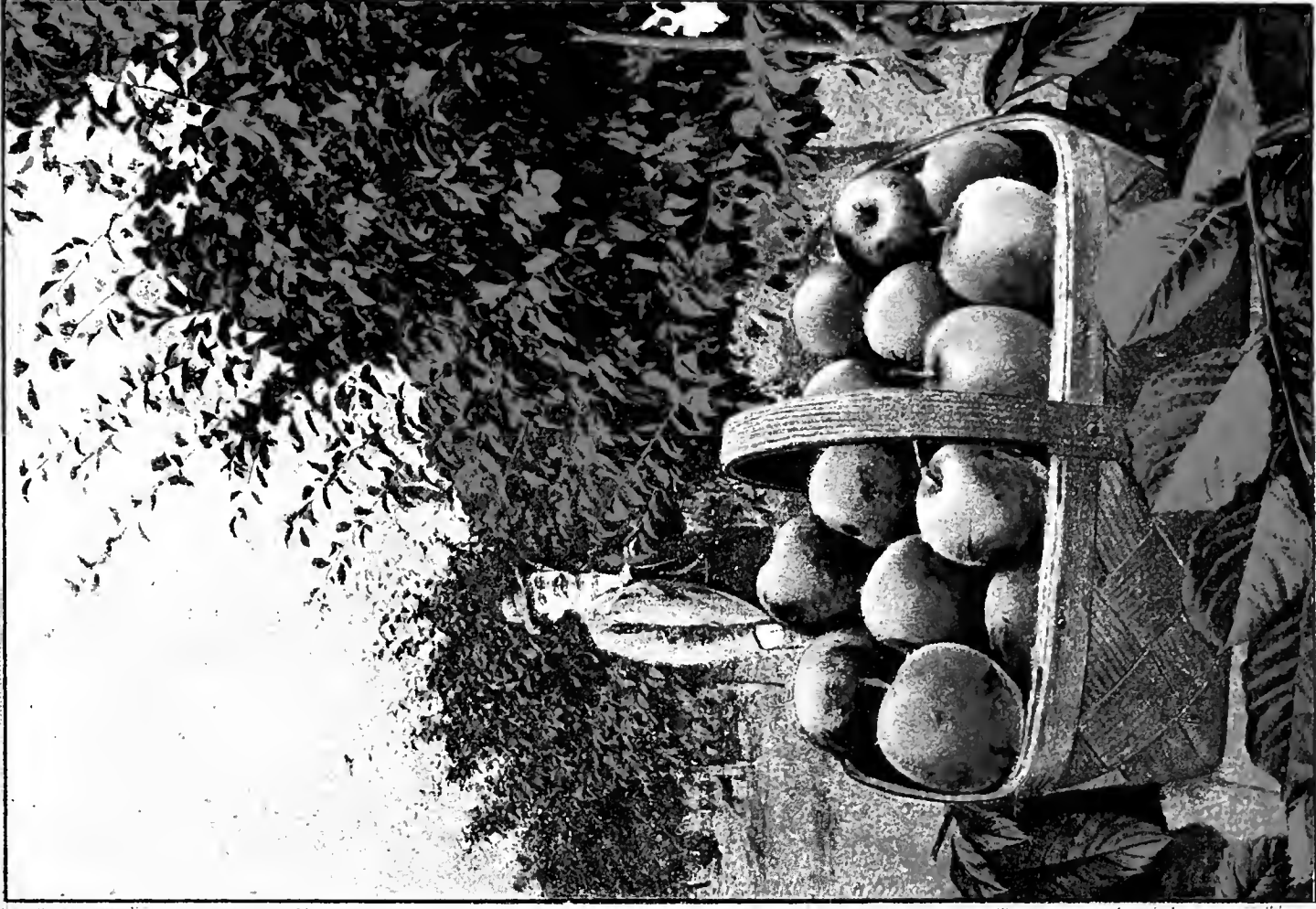
Rochester
Lithographing
Company,
Rochester, N. Y.



MAYNARD PLUM

Originated by Luther Burbank, that great master of Modern Horticulture. In size it is very large, often measuring seven and one-half inches in circumference. Form nearly round, slightly flattened at the ends, of richest, crimson purple, deepening to royal damask as full ripeness is reached. Tree hardy, vigorous and compact grower. Leaves dark glossy green. Bears immense crops of even sized fruit while very young. Never fails. Surpasses all other varieties in keeping and carrying qualities. Flesh firm even when dead ripe, but melting and juicy with a deliciousness indescribable. Will command the highest price in both home and foreign markets.

MAYNARD PLUM CATALOGUE



TWO YEAR OLD TREES OF **MAYNARD PLUM**, A BASKET OF RIPE FRUIT AND LUTHER BURBANK, THE ORIGINATOR, IN THE BACKGROUND.

It is an honor to California that Luther Burbank is its citizen. He is all that he has ever been said to be and more. He is a genius.
DR. L. H. BAILEY,
Dean of College of Agriculture, Cornell University.

We have been honored with a commission from Luther Burbank, of Santa Rosa, California, and have accepted the work of propagating for, and introducing to the Horticultural Public his grand new plum Maynard and appeal to all lovers of good fruits to help us in the introduction and dissemination of this his latest and greatest effort. Mr. Burbank has done more than any other living man in the introduction of new and valuable varieties of fruits and flowers, and he is still working away and no doubt will bring forth from nature's storehouse many more valuable varieties that in turn will stimulate coming generations to plant and care for trees and flowers that will increase the world's wealth and add pleasure and happiness to the homes of millions of people yet unborn.

The Maynard Plum begins to ripen about July 1st at Santa Rosa, Cal., following closely after that other magnificent introduction of Burbank, Climax, and just at a season of the year when plums are in best demand in the great markets; but instead of coming and going swiftly as is the regrettable habit of plums, the season of ripening for the Maynard extends all through July and far into August.

In size it is very large, often measuring seven and one-half inches or more in circumference; form nearly round, slightly flattened at the ends; of richest crimson-purple, deepening to royal damask as full ripeness is reached. A more beautiful fruit were hard to imagine. The flesh is firm even when dead ripe, but melting and juicy with a deliciousness indescribable. Besides this combination of beauties to delight the eye and palate, the ripe fruits have a charming fragrance unusual to plums. Few fruits could please so many of the senses as this new beauty, now added to Mr. Burbank's list of triumphs.

Address all correspondence to

OREGON NURSERY COMPANY, Ltd.,

SALEM, OREGON.

<p>Cards, Order Books, Colored Plates Process Plates Photographs,</p>	<p>New fruits and flowers Accurately Drawn and Colored from Nature.</p> <hr/> <p>Nurserymen's Advertising Matter of All Kinds</p> <hr/> <p>Catalogues Printed to Order.</p>	<p>Lithographed Stationery, Plate Books, Catalogues, Circulars, etc.</p>
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Rochester Lithographing Co., Rochester, N. Y.

August Rölker & Sons

Established 1835

31 Barclay Street,
P. O. Box 752

NEW YORK

FRUIT STOCKS Evergreens, Ornamentals,
Manetti and Multiflora
Roses, and all other French Nursery Stocks, grown by
Elmire Sebire, Fils Aine, Ussy, (Calvados) France

HOLLAND GROWN Hardy Azaleas, Rhodo-
dendrons, Hybrid,
Perpetual and Tree Roses, Lilac, Boxwood, Shrubs. Speci-
men Evergreens and Ornamental Trees, etc-

SEEDS French Apple and Pear, Mahaleb, Myrobo-
lan, Japan Pear, etc.

RAFFIA FIBRE IN BEST GRADE
Always in Stock

All importations made through us will receive
prompt and careful attention, at cost rates.

PRICES ON APPLICATION

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

===== HAVE TO OFFER =====

APPLE, CHERRY, PEACH
KEIFFER PEAR
(1 and 2 yr.)

SHADE TREES

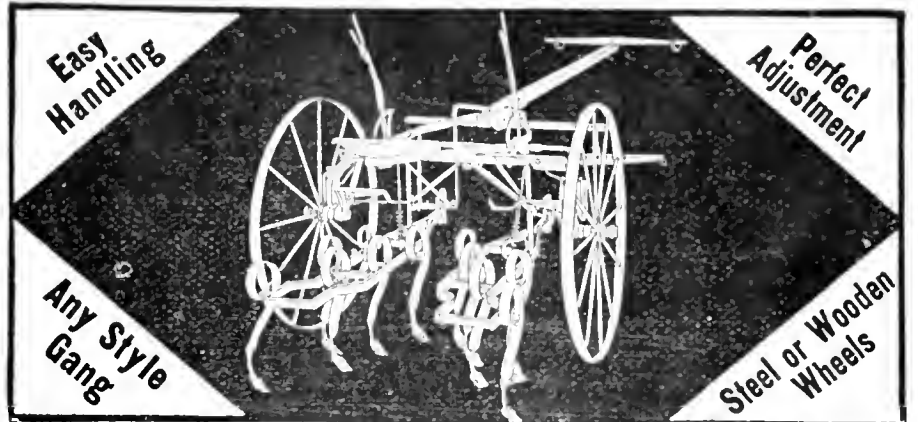
APPLE SEEDLING JAPAN PEAR SEEDLING

MAHALEB SEEDLING FOREST TREE SEEDLING

Osage, Elm, Catalpa,

GRAPE VINES BECHTEL'S FLOWERING CRAB

When writing to Advertisers mention The National Nurseryman



IN THE NURSERY ROW.

Special features make the implement shown above particularly adapted to the nurseryman's use. The spring teeth can be used for deep or shallow cultivation, thoroughly pulverizing the soil and preserving the moisture; they can be set at any desired angle, giving them the necessary "suction" to force them into the hardest soil.

THE REED PIVOT AXLE CULTIVATOR

is under instant control of the foot. Slight pressure throws either wheel and its gang to right or left. If a rigid axle cultivator is desired you have it by simply removing a bolt and gangs will swing independently. A model for ease of handling and thorough cultivation under all conditions.

Agents Wanted in all New Territory.

Write for Catalogue and Terms.

REED MANUFACTURING CO., KALAMAZOO, MICHIGAN.

APPLES 100,000 2 and 3-year-old, in large assortment, as fine as grows.

PEACH 185,000. 50 leading sorts from Southern Natural Pits grown on new land.

ASPARAGUS ROOTS 1,250,000 Fine, Strong 1 and 2-year plants. Palmetto, Barr's, Donald's and Giant Argenteuil.

These are our specialties for the trade and we invite correspondence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia Dewberries, and Large Norway Maples.

WEST JERSEY NURSERY CO.

STANTON B. COLE, - BRIDGETON, N. J.

THE NEW BLACKBERRY

WARD

*By Far the Best Market Blackberry Now
Before the Public.*

For description and price address either

CHAS. BLACK,

D. BAIRD & SON,

OR

Hightstown, N. J.

Baird, N. J.

When writing to Advertisers mention The National Nurseryman.

75,000 CHOICE 75,000 Perennial Phlox

One of our Leading Specialties

Strictly first class varieties, distinct and decided colors; strong field grown plants that were cut back and potted up into three inch pots late in the fall, with from 3 to 6 eyes, that will make a better display of flowers than plants dug from the fields; this stock must not be confounded with small winter propagated plants such as are usually sent out.

Athis. Deep pink, overlaid salmon, crimson eye
Andreas Hoffer. A fine early white
Aquillon. Carmine rose, shaded salmon, crimson eye
Bridesmaid. Pure white with large crimson eye
Beranger. White suffused pink, crimson eye
Blanc Nain. Large dwarf white
Bouquet Fleur. White, with deep rose eye
Crystal Palace. White, with lilac markings and center
Cross of Honor. Magenta, bordered white, in the form of a maltese cross
Cyclon. White, suffused rosy lilac, dark rose eye
Champs Elysee. Fine rich purplish crimson
Duguesclin. White, with dark crimson center
Eclairer. Purplish crimson, very bright, with light halo
Eschardonne. Lilac suffused white, deep rose colored eye
Etoile du Nord. Purplish crimson
Eugene Danzenvillier. Lilac with white edge and center
Faust. Pure white with cherry-red eye
Henry Murger. White with bright rose eye
Jeanne D'Arc. A fine late white
Jules Finger. Tender rose with deep rose eye
Lilipot. Bright magenta with crimson eye
La Foudre. Deep purplish crimson
La Nuit. Deep purplish crimson
La Vague. Soft rosy pink with red eye
Lothair. Salmon red with carmine eye
Mlle Marie Kuppenheim. A good dwarf, pure white
M. Marey. Salmon rose with deeper center
Marquis de St. Paul. Deep rose, overlaid, salmon
Michael Cervantes. Pure white with bright red eye
Mrs. Dora Umgeller. Rich deep rose; a strong variety
Moliere. Salmon rose, deep rose eye
Nettie Stewart. Pure white, occasionally marked rose
Ornament. Rosy magenta with crimson eye
Professor Schlieman. Salmon rose with carmine eye
Peach Blow. Delicate pink with white markings
Pantheon. Fine deep salmon rose, free and effective
Pacha. Deep rose with bright eye
P. Bonnetin. Magenta overlaid salmon
Robert Werner. Tender rose with deep rose eye
Semiramis. Purplish magenta
Simplon. White suffused lilac, dark rose center
Sylphide. Light rose and white with deep center
Schlössgartner Reichenau. Bright rose, dwarf and free
Sunshine. Salmon pink with deep red eye
Thebaide. Dwarf salmon red with crimson eye
Wm. Muhle. Salmon pink with dark crimson eye
Zouave. Largest purplish crimson, red eye

Any of the above varieties 75 cents per doz.; \$6.00 per 100; \$50.00 per 1000.

Three Choice Red Phlox

Varieties that are always scarce

Coquelicot. A fine pure scarlet with deep carmine eye
Jocelyn. Bright salmon red, very brilliant
Matador. Bright orange scarlet, cherry-red eye
 \$1.00 per dozen; \$8.00 per 100.

For anything that you may require in the line of Hardy Perennials, refer to our wholesale list which is mailed free to the trade.

HENRY A. DREER,
 714 Chestnut St. PHILADELPHIA

When writing to Advertisers mention The National Nurseryman.

W. T. HOOD & CO., OLD DOMINION NURSERIES.

RICHMOND, VA.

OFFER FOR FALL 1902 AND SPRING 1903

First class Peach, Apricots, fine lot of Sugar Maples, Silver, Norway and Weirs Cut Leaf Maples, Linden, American Linden, and Carolina Poplars. 100,000 California Privet, one and two year; 20,000 Citrus Trifoliata, two and three year; and 50,000 Silver Maple Seedlings.

Samples and prices on application.

W. T. HOOD & CO., OLD DOMINION NURSERIES,
 RICHMOND, VA.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
 Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

The Snow Hill Nurseries,

WM. M. PETERS' SONS,

R F. D. Route.

SNOW HILL, MARYLAND.

Having practically sold the bulk of our fruit trees, we offer for delivery Spring, 1903: Three millions of well rooted Strawberry Plants, all from plants set the past Spring, of the following varieties:

Auto	Hoffman	Ruby
Bubach No. 5	Jessie	Sample
Bismark	Jersey Markett	Senator Dunlap
Brandywine	Johnson's Early	Sunrise
Blonde	Kansas	Sharpless
Crescent	Lady Thompson	Saunders
Cyclone	Marshall	Shepard
Duffs	Mitchell's Early	Seaford
Drowth King	Nickomer	Tubbs
Elno	New York	Tillman's Favorite
Enormous	Ocean City	Tennessee
Gandy	Parker Earl	Up-to-Date
Glenmary	Parson's Beauty	Wolverton
Gladstone	Pride of Cumberland	Warfield
Greenville	Ridgeway	

Also a fine lot of California Privet, and 500,000 Asparagus Roots, 2 year, in the following varieties: Conover Colossal, Barr's Mammoth, Palmeto. Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

TRANSON BROTHERS' & D. DAUVESSE'S NURSERIES

BARBIER & CO. SUCCESSORS.

16 Route d'Olivet, Orleans, France.

—OUR PRELIMINARY LIST OF—

NURSERY STOCKS

Is Just Issued and May be Had from our Agents,

Messrs. KNAUTH, NACHOD & KUHNE,

13 William Street,

New York.

WRITE FOR IT!

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,

509 Arch Street, PHILADELPHIA, Pa.

A large stock of Clematis, leading varieties.

Not Quite a Million but an Immense Quantity.

Write for Prices.

P. W. Butler, East Penfield, N. Y.

E. T. DICKINSON, Chatenay Seine, France.
GROWER AND EXPORTER,

HAS TO OFFER FRENCH NURSERY STOCKS, DUTCH BULBS, GLADIOLI, &c.
Fruit Tree Seedlings and Ornamentals. Pear, Apple, Plum and Cherry and Angers Quince Cuttings. All grown specially for the American trade. Pear and Crab Apple Seed. The most complete assortment of ORNAMENTAL STOCKS, TREES AND SHRUBS. Orders solicited and booked now at low rates.

E. T. DICKINSON, - - - 1 Broadway, New York.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of

Beacon Building,

Highlands Nursery, N. C.

BOSTON, MASS.

CHARLES DETRICHE, Senior,

ANGERS, FRANCE,

Grower and Exporter of Fruit Tree Stocks, Forest Trees and Ornamentals.

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriché would be glad to receive any horticultural catalogues or papers.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

FOR SPRING 1903

Send Us Your Want List.

We have 150,000 Peach, including 25,000 Elberta; 250,000 Apple; also Pear, Cherry, Plum, and a general assortment of other stock. Asparagus, 1 and 2 year. Privet, extra fine, 1 year. Several thousand extra large Shade Trees. SURPLUS LIST NOW READY. We cellar no stock. All fresh from the nursery rows.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MARYLAND.

When writing to Advertisers mention The National Nurseryman.

FRENCH STOCKS

COLOMBE FRERES, USSY, FRANCE,

Offer this season Fruit and Ornamental Stocks in large variety and in large or small quantities; well graded and at lowest prices.

Send lists and orders now and secure full assortments of kinds and sizes wanted.

FRED'K W. KELSEY, Sole Agents for United States and Canada.

150 Broadway. New York

WHOLESALE NURSERIES

We have a full line of stock for Nurserymen and Dealers, including **APPLE GRAFTS PUT UP TO ORDER, PIECE OR WHOLE ROOTS,** Thirty-five years in the business.

THE ONLY PRACTICAL BOX CLAMP IN USE—CHEAP

R. H. BLAIR & CO., Proprietors of **LEE'S SUMMIT NURSERIES.**

N. W. CORNER 11TH AND WALNUT STS., KANSAS CITY, MO.

Fall of
1903

Apple Seedlings
Japan Pear Seedlings

And a General Line of Choice Nursery Stock

Address, **A. C. GRIESA,**

Wholesale Dept. Mt. Hope Nurseries

LAWRENCE, KANSAS

We offer for fall delivery the following well grown and graded stock....

200,000 Apple Trees
600,000 Peach Trees
1,000,000 June Budded Peach Trees
100,000 Pecan Trees, 6 in. to 2 ft.
40,000 Cherry Trees
35,000 Pear Trees
5,000 Evergreens
25,000 Roses, 2 years Old

Let us figure with you on your fall wants

SOUTHERN NURSERY COMPANY
WINCHESTER, TENN.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

TO **ST. LOUIS, KANSAS CITY AND OMAHA.**

FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

WABASH DINING CARS.

Full information regarding rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,

ST. LOUIS, MO.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention the National Nurseryman.

250,000 PALMS

KENTIAS, PHOENIX, LATANIAS, PANDANUS and OTHER GOOD SORTS.

ORANGES, KUM KWATS, LEMONS, and LIMES

Fine shapely plants. Grafted on Trifoliata stock.

CHERRIES, 5 ft. and 4 ft.

PLUMS—Abundance, **RED NAGATE** and other standard sorts.

FIGS—1 and 2 years. **PEACHES**—All the leading sorts.

WALNUTS—English and Japan.

MULBERRIES, POMEGRANATES, LOQUATS AND OLIVES. SCUPPERNONGS and other GRAPES

HEDGE PLANTS—Thirty acres planted in **AMOR** **RIVER PRIVET.** The best evergreen hedge plant.

500,000 CITRUS TRIFOLIATA. (Hardy Lemon.)

BIOTA AUREA NANA in immense quantities.

CEDRUS DEODARA, RETINOSPORA, JUNIPERUS, LIBOCEDRUS DECURRENS, and other CONIFERS.

We have the largest stock of ornamentals ever grown in the south. Can supply same in carload lots. **No Scale. No Disease.**

WRITE FOR PRICES.

P. J. Berckmans Co.

(INCORPORATED)

FRUITLAND NURSERIES,

AUGUSTA, Ga.

Established 1856.

Over 400 Acres in Nursery.

60,000 Feet of Glass.

THE

Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut, Norway and Sugar Maple, Lindens, Poplars, Magnolias, EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS—Ponticum, Catawbiense, Named Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA, NEW YORK.

When writing to advertisers mention The National Nurseryman.

Vincennes Nurseries,

W. C. REED, Proprietor

VINCENNES, INDIANA

We offer for Fall 1903 the following in Car Load Lots or Less

Apple 2 and 3 Year

Peach, One Year

Standard and Dwarf Pear

Plum, One and Two Year

Cherry, One Year

Carolina Poplar

Cut Leaved and Silver Maples

Catalpa Speciosa Seedlings.

Also good assortment of Small Fruits, Ornamentals, etc.

Call and see US and look over our plant, or send list of wants for Quotations.

Would be pleased to meet you at Detroit.

GREENHOUSES, ROSE HOUSES,

CARNATION HOUSES, ETC.

Facilities unequaled. Forty-seven years experience. Plans embrace latest improvements. Estimates furnished for houses erected with our patent iron construction or for the material only, ready to erect.

We shall be pleased to receive your inquiries either for completed houses, or for the iron or cypress material; also any other kind of material which enters into a greenhouse structure.

GREENHOUSE CONSTRUCTION CATALOGUE

Also Greenhouse Heating and Ventilating Catalogue, sent from our New York Office on receipt of five cents postage for each.

LORD & BURNHAM COMPANY

NEW YORK OFFICE, St. James Building, Broadway and 26th St.
GENERAL OFFICE and WORKS, Irvington-on-Hudson, New York.

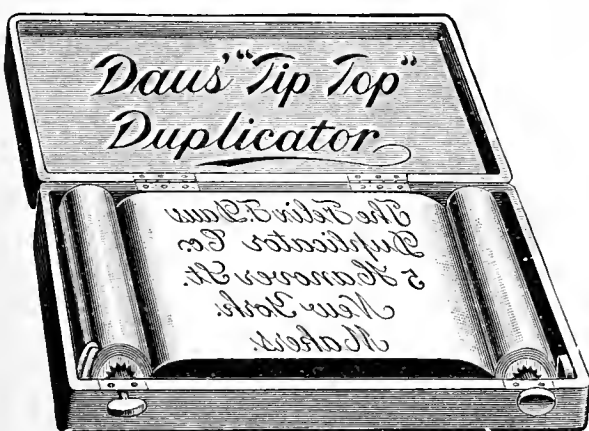
SLUG SHOT

Kills Insects on Currants, Potatoes, Cabbages and Flowers
USED 22 YEARS

SOLD BY SEEDSMEN EVERYWHERE

Send for Free Booklet on Bugs and Blights to

B. HAMMOND, FISHKILL-ON-HUDSON, NEW YORK

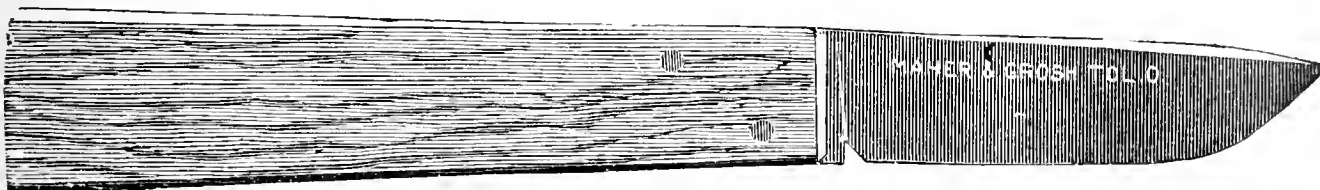


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... DAUS' TO PROVE

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making 100 copies from Pen-written and 50 copies from Type-written original we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33 1/3 per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2.25.
BUDDING KNIFE with folding blade, No. 93. By mail 25 cents; 6 for \$1.75.

GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.
SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

MCHUTCHISON & CO.,

218 FULTON STREET, CORNER GREENWICH ST., NEW YORK,

SOLE AMERICAN AGENTS FOR

VINCENT LEBRETON, La Pyramide, Angers, France.

Wholesale Growers and Exporters of French Fruit and Ornamental Seedlings, Manetti, Multiflora, etc

H. W. VAN DER BOM & CO., Oudenbosch, Holland.

Extensive Nurseries of Large Evergreens, Conifers, Transplanted Flowering Shrubs, Apple Stocks, Norway Maples, etc.

SCHAUM & VAN TOL, Boskoop, Holland.

Wholesale Growers of Dwarf and Standard Roses, Peonies, Clematis, Evergreens, Hardy Azaleas and general Boskoop Nursery Stock.

JAPANESE NURSERY STOCK,

Japanese Maples, Sciadopitys, Iris, Ilex Crenata, etc.

RAFFIA Red Star Brand

Best grade of Madagascar Raffia, selected for Nurserymen. In stock, or price quoted for ten or more bales for direct import.

Write for Prices. Send for Catalogue of above firms.

MCHUTCHISON & CO.,

218 FULTON STREET, CORNER GREENWICH STREET, NEW YORK.

Custom House Brokers and Forwarders.

We Have in Quantity for Fall Trade

APPLE TREES

CHERRY TREES

APPLE SEEDLINGS

We will make special prices on seedlings for orders placed now.

CLEAN STOCK.

ALL GRADES.

F. W. WATSON & CO.

TOPEKA, KAN.

When writing to Advertisers mention The National Nurseryman.

TWO YEAR OLD APPLE

Large block—good sorts. Special price on early orders.

APPLE GRAFTS MADE TO ORDER

Varieties to please the customer.

A good supply of

APPLE SEEDLINGS

For Fall of 1903.

GENERAL STOCK OF

CHERRY, PLUM, PEACH, etc.

Write for Prices.

NORTH TOPEKA NURSERIES,

A. L. BROOKE, Proprietor,

NORTH TOPEKA, KANSAS.

WILLIS NURSERIES

OTTAWA, KANSAS.

Offers for the Fall of 1903, a large general assortment of

CHOICE NURSERY STOCK,

including

100,000 APPLE,
Choice 2 yr. trees.

75,000 PEACH,

20,000 CHERRY,

150,000 GRAPES.

Correspondence Solicited.

Willis Nurseries,

OTTAWA, KANSAS.

When writing to Advertisers mention The National Nurseryman.

Albaugh Nursery AND ORCHARD CO.

IN SURPLUS, in cellars in fine order :

PEACHES

75,000 first class, one-third Elberta.

APPLES

15,000, $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, leading varieties.

PEARS

5,000, 11-16 and up, first-class. Bartlett, Seckle, Kieffer, etc.

CHERRY

5,000, 2 yrs. Sour varieties, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

PLUM

1000, on plum, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{3}{4}$ and up.

February 1st, 1903—First come, first served. Prices fair.

Albaugh Nursery & Orchard Co.
PHONETON, O.

Inspector's certificate on all shipments.

B. & A. SPECIALTIES

Evergreens, Hardy Herbaceous Plants, including Phlox, Iris, Paeonias, Campanula, Anemone, and numerous other varieties.

Also quantities of H. P. Roses, Standard Roses, Clematis, Rhododendrons, Hardy Azaleas, California Privet, Palms, Bay Trees, Boxwood, etc.

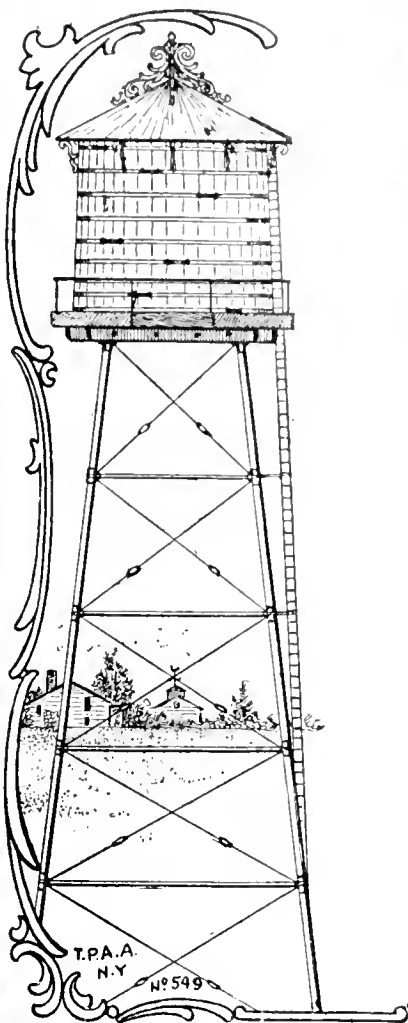
Ask for quotations on any stock you cannot find, and prices will be quoted promptly.

When in New York do not fail to visit our Nurseries. We are only a short distance from New York City on the Erie R. R., Rutherford, N. J., being the first station on the road.

Bobbink & Atkins,
Nurserymen and Florists,
RUTHERFORD, New Jersey.

When writing to Advertisers mention The National Nurseryman.

Absolutely safe and reliable. Ask your friends.



When You Plan Improvements

of course you will not overlook the water supply, a necessity that will bring to mind

CALDWELL
Cypress Tanks and
STEEL TOWERS

You need a union of first-class material and intelligent workmanship; such artistic beauty that your useful water outfit will be an ornament in itself.

Write for prices and testimonials.

W. E. CALDWELL CO.,
LOUISVILLE, KY.

KNOX NURSERIES 1851 1903

WE OFFER FOR SPRING

the following well grown, thrifty stock. We shall be pleased to quote price on application.

APPLE. 2 and 3 year, mostly $\frac{3}{4}$ and up. Ben Davis, Grimes, Ingram, Jonathan, Y. Imperial, Akin, N. W. Greening, Wine Sap, etc.

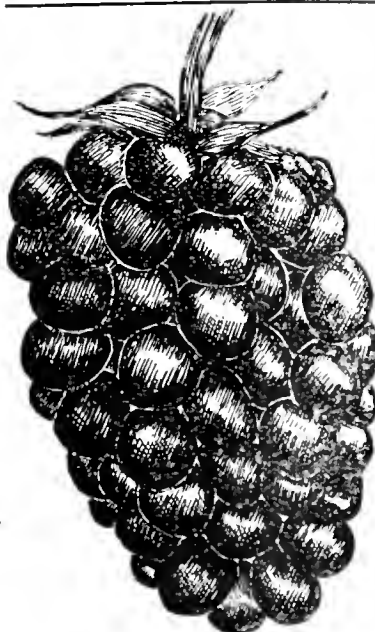
CHERRY. 1 year, $\frac{5}{8}$ and all up. Fine stock of elegant trees.

PEACH. 9 16 and up, and some small grades. Elberta and leading sorts.

KANSAS RASPBERRY TIPS.

SNYDER BLACKBERRIES. Sucker plants.

H. M. SIMPSON & SONS,
VINCENNES, IND.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

BRIDGEPORT NURSERIES

Grow one of the most complete lines of Hardy Nursery Stock in the country, and have for

FALL 1903 AND SPRING 1904

In quantities to suit customers—CAR-LOAD LOTS, or LESS, at prices that will interest you.

Apple
Plum
Peach
Grapes
Gooseberries
Raspberries

C. Poplar
Norway Maple
Catalpa
Chestnuts
Shrubs
Roses

Pear
Cherry
Quince
Currants
Strawberries
Blackberries

Silver Maple
Hard Maple
Box Elder
Evergreens
Vines
Etc.

APPLE SEEDLINGS

Mariana Plum Stocks.

Imported Seedlings.

APPLE AND PEAR GRAFTS

POMONA—Currant the most profitable.

SPADES—The BEST and CHEAPEST.

EXCELSIOR (baled). The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE
Cheaper, and far superior to Moss.

Our STORAGE and SHIPPING facilities are unsurpassed.

Trade-list ready about September 1st.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

THE VILLAGE NURSERIES, HARNEDSVILLE SOMERSET COUNTY, PENNA.

We offer to the trade for Fall of 1903, and Spring of 1904, a large and complete line of Apple, Pear, Plum and Peach Trees, 1,000,000 trees healthy, no finer trees anywhere in the United States. Your want list and correspondence solicited. Certificate of inspection showing clean bill of health goes with each and every shipment.

The following is an extract from a prominent New York Nurseryman who bought a carload of Peach trees from us last fall, and who is very particular in regard to the stock he buys:
Gentlemen:—

THE VILLAGE NURSERIES, Harnedsville, Pa., November 11th, 1902

Your favor of the 6th inst. has been received and contents noted. We have also received the Peach trees in good order, and we think it but right that you should know that we are pleased with them in every way. The trees, the count and the correspondence has all been very satisfactory to us.

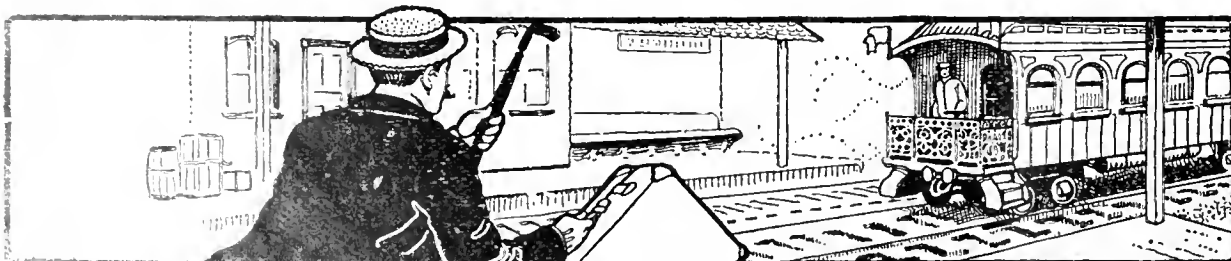
This is only one of many letters of this kind received last fall, and our stock of Peach trees will be superior this fall to any we have ever grown.

LEST YOU FORGET

We call attention to the fact that the label season, like eternity, is "near at hand."

Although we are accumulating an unusually large stock, the "early bird" will enjoy his usual prestige. We are wasting no sentiment on the worm, it's his misfortune.

Benjamin Chase, Derry, N. H.



I Will Meet You in Detroit.

Don't wait until
the last minute
to order

RAFFIA

and when you order it buy the very best quality.
Good strong white Raffia is what you want.
That's RED ★ STAR brand. You can't get it
everywhere ★ Write for prices. Immediate
shipment.

THOS. MEEHAN & SONS, Inc.

**DRESHERTOWN,
MONTG. CO. PA.**

WHOLESALE DEALERS AND IMPORTERS OF RAFFIA.

DAYTON FRUIT TREE LABEL CO.

MANUFACTURERS OF

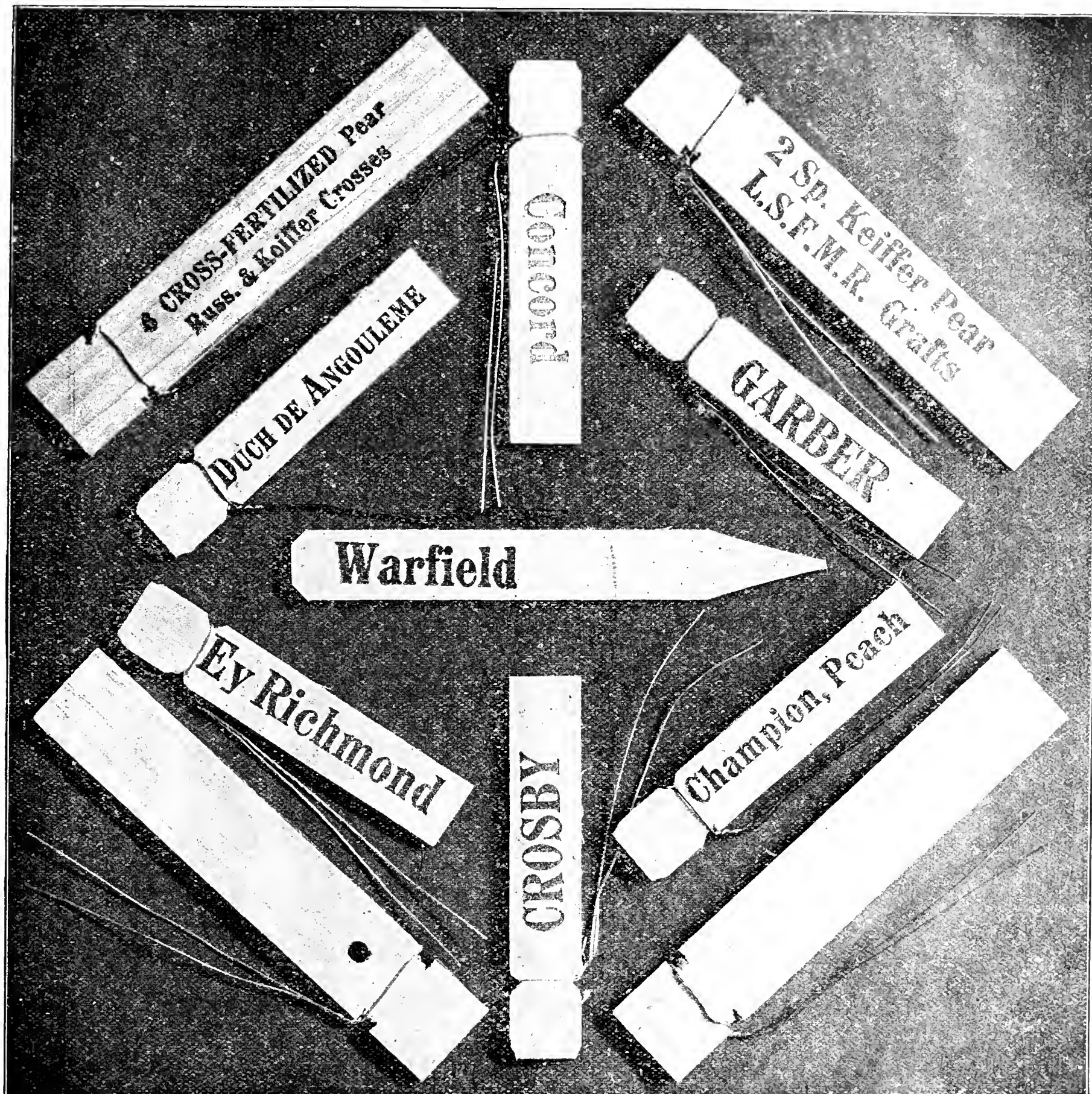
PLAIN
PAINTED

WOOD LABELS

PRINTED
& WIRED

OF EVERY VARIETY FOR

NURSERYMEN AND FLORISTS.



The above description gives you but a faint idea of the different kinds and styles of printed labels, and we especially call your attention to the style of type used, being a bold face it will not be easily obliterated in handling or by being exposed to the weather.

The high standard quality of our labels together with promptness in filling orders, should merit us a trial.

SAMPLES AND PRICES CHEERFULLY GIVEN.

DAYTON FRUIT TREE LABEL CO., DAYTON, OHIO.

WHAT are the reasons for the acknowledged superiority of the catalogues for Nurserymen made at the Mount Pleasant Press of J. Horace McFarland Company, Harrisburg, Pennsylvania ?

1. The catalogues are made from the standpoint of their fitness to *sell* trees, plants and vines, and not merely as jobs of printing.

2. The equipment of the Mount Pleasant Press is the best in America for this special purpose. It is not the chance print-shop, doing an occasional catalogue, but an establishment in which horticultural work is going on every work-day in the year. "Country Life in America" is printed here; Professor Bailey's great "Cyclopedia of Horticulture" is made here, as well as all of Professor Bailey's books.

3. The collection of engravings for illustrating catalogues is absolutely unequaled. It is constantly increased

from our great collection of horticultural photographs, admittedly the best in America if not in the world, and this collection, now containing upward of five thousand subjects, is being rapidly augmented by the efforts of our especially trained photographic artists, who travel anywhere to get fine pictures.

4. We are able, when desired, not only to design, illustrate and print, but to actually *write* a catalogue, asking merely a list of the trees and plants to be sold and the prices. We prefer, however, to have the customer tell his own story. Further, we can make special photographs anywhere in the United States, to illustrate a special catalogue.



The summer is the very best time to use our great facilities for making catalogues that sell trees, plants and vines. Write us now, telling what you want to accomplish.

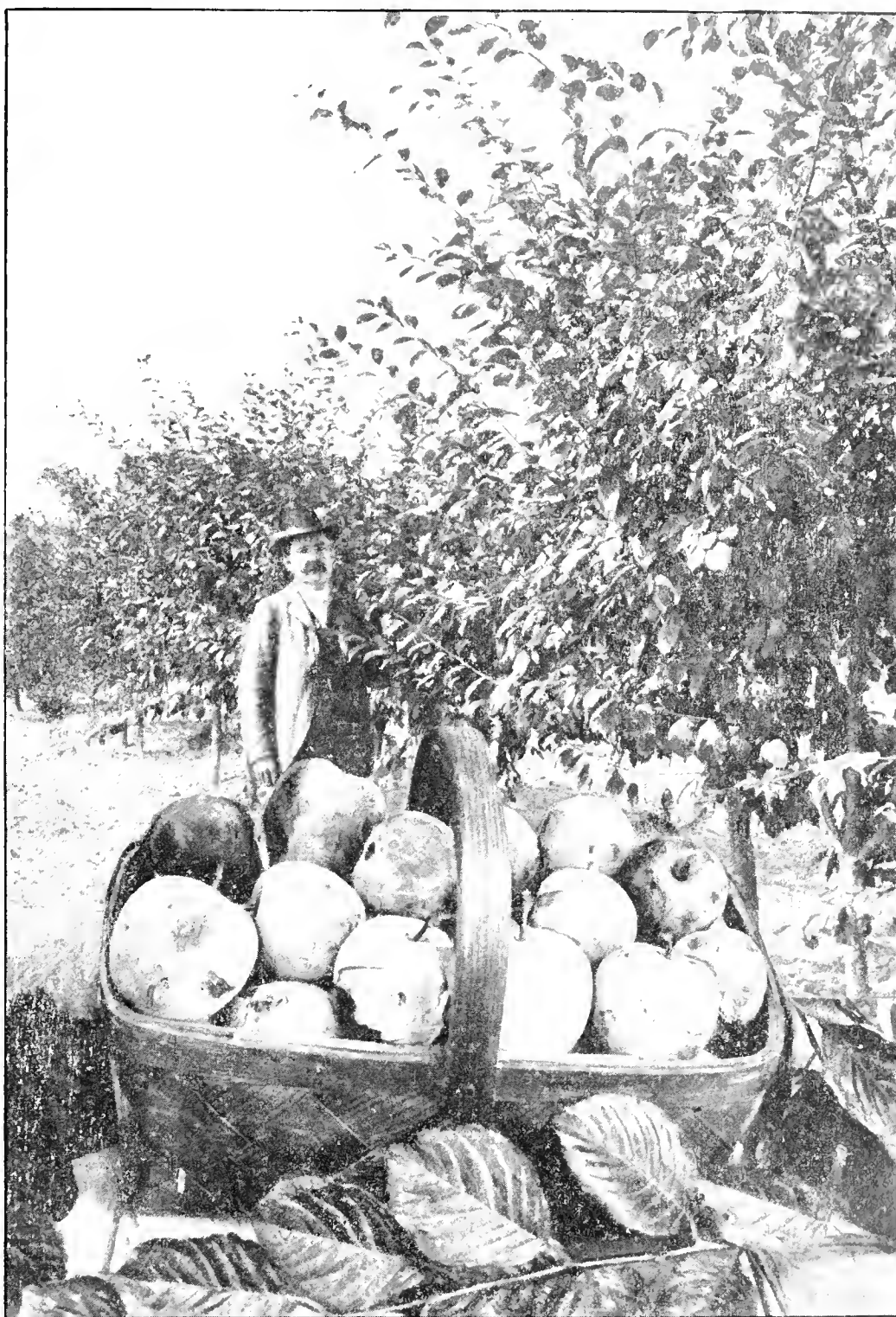
J. HORACE McFARLAND COMPANY

HARRISBURG, PA.

Mr. McFarland will be at the Detroit convention — Badge No. 8 — and may be there conferred with.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

*The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty*



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

*Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL*

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902

LUTHER BURBANK

ADDRESS ALL CORRESPONDENCE TO THE

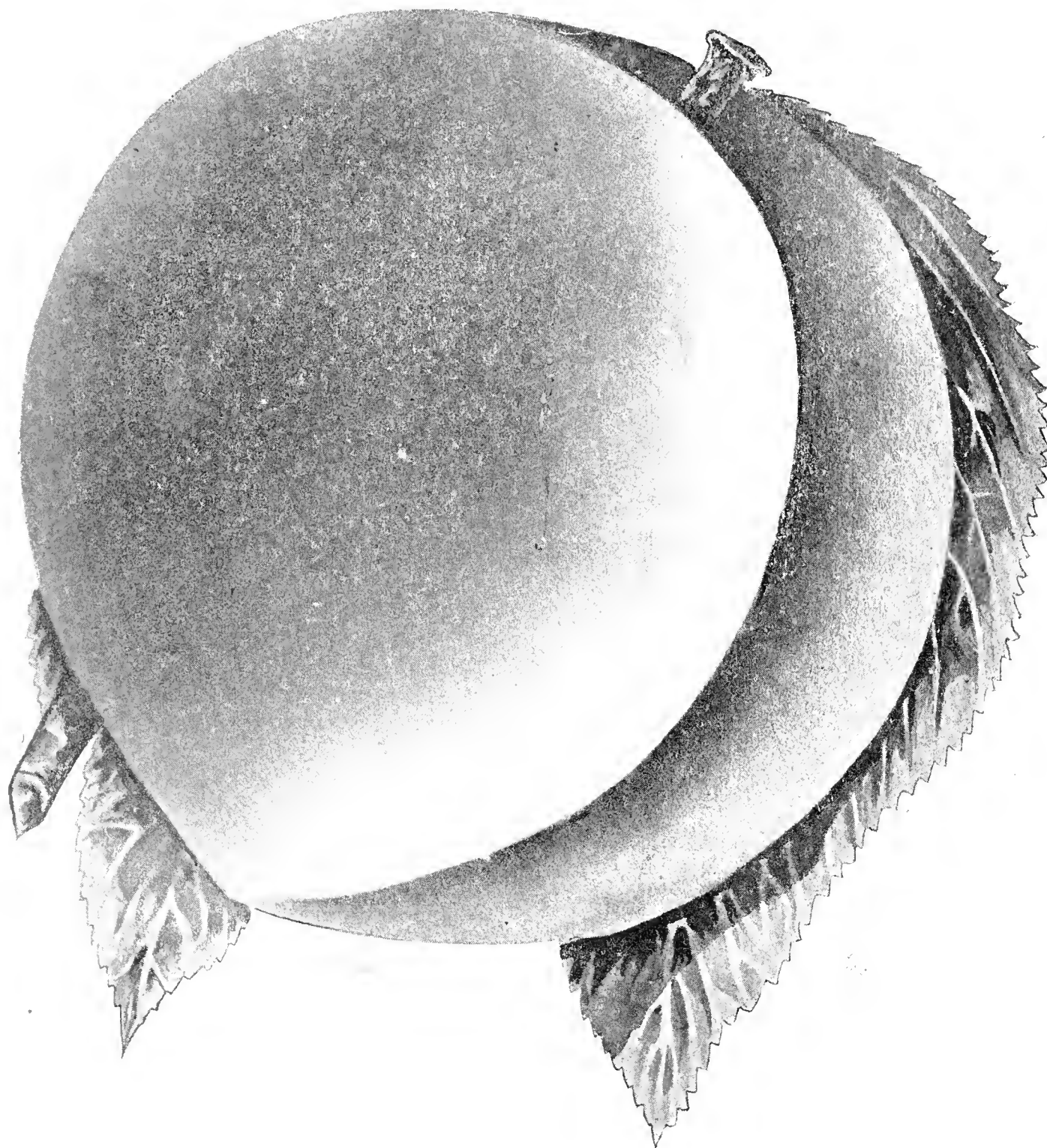
OREGON NURSERY COMPANY,
 SALEM, OREGON.

Apple Trees

BUDS READY JULY 10th

We have them.

Come and See.

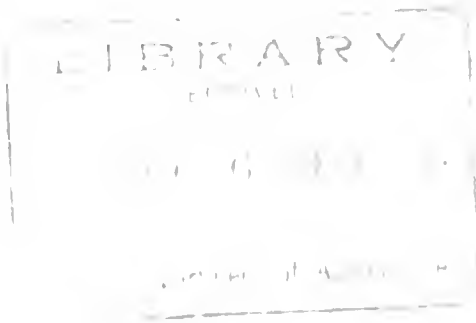


PEACH will go higher.

KIEFFER the leading Pear.

See our representative, Orlando Harrison, if Apples, Peaches or Pears are wanted.

J. G. HARRISON & SONS
BERLIN, - - MARYLAND



July, 1903

Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.

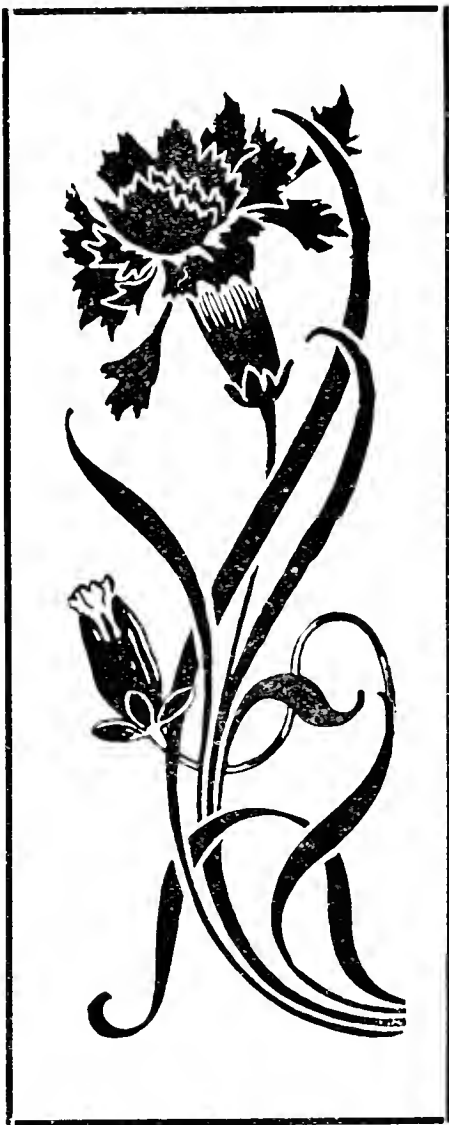


Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Offer one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds



One million Peach Trees, grown on bank of Lake Erie. No healthier, better trees can be produced.

Fine blocks 2 and 3 year Standard and Dwarf Pear, Apple, Cherries and Plums.

Call especial attention to our **Small Fruit Department**—immense stock all leading varieties, highest grade, packed right. Currants, Gooseberries, Blackberries, Raspberries, Grape Vines, Etc.

Roses — Largest acreage field-grown plants in the world.

Clematis—Large flowered and Paniculata, Ampelopsis Veitchii in large supply with all other leading varieties vines and shrubs. Ornamental Hedge Plants, California Privet, Japan Quince, Berberry Thunbergii, Purple and Green Leaf, Tartarian Honeysuckle, etc.

Direct importations from leading Holland, Belgium and French growers of Chinese Azaleas, Palms, Bulbs, etc.



Let us estimate on your list of wants. Special rates on car lots for fall shipment or stored for spring delivery. Personal inspection cordially invited : : : : : : : : : : : :

CATALOGUES AND PRICE-LISTS FREE

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs Roses Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.

MOUNT HOPE NURSERIES,
Rochester, N.Y.

Established 1840. Mention this paper.

AN ATTRACTIVE SPECIALTY FOR NURSERYMEN
AND DEALERS IS OFFERED IN OUR

NEW PEDIGREED CLIMBING ROSE

DOROTHY PERKINS

A SEEDLING ROSE OF OUR OWN ORIGINATING.
AWARDED A SILVER MEDAL AT THE PAN-AMERICAN.
SEND FOR DESCRIPTIVE CIRCULAR.

Handsome Four Page Circulars will be furnished with customer's name, address, etc., imprinted at \$2.00 per 100, their actual cost.

Electrotypes of any of the cuts used in this circular will be furnished for catalogue use.

Handsome Lithographed Plates for Salesmen's Use will be supplied to concerns who employ agents. Samples mailed on application. We do not offer these plates for indiscriminate distribution but only for the use in salesmen's outfits. When furnished in considerable numbers, a memorandum charge of 1½ cents each will be made for them but such charge will be credited back upon orders for rose bushes of this variety.

FOR 1903-1904, STRONG, FIELD-GROWN
PLANTS, TWO YEARS OLD.

JACKSON & PERKINS CO.

Wholesale Nurserymen,
NEWARK, New York.

AUG. RHOTERT

(ESTABLISHED 1893.)

26 BARCLAY STREET.
P. O. Box 1250,

NEW YORK

TELEPHONE: 2855 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES. (Established 1795.) Angers, (France)

French Fruit and Ornamental Stocks, Specimen Evergreens and Ornamental Trees. Shrubs, Roses, Magnolias, etc., of best Quality, Packing, Grading. Prompt deliveries.

M. KOSTER & SONS. - - - Boskoop (Holland)

Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and Rhododendrons, Magnolias, Hydrangeas, fine Specimen Evergreens and Fancy Ornamental Trees. Careful Packing, complete and prompt deliveries.

Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) Annan (Scotland)

English Manettis, Norway Maples and Spruce, Birch, Beech Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Quality, Grading and Packing.

TREE SEEDS. Apple and Pear Pips, Myrobalan, Mahaleb and Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!

Very Best Selected Fibre.
From Stock or for Import.

WHOLESALE ONLY. Catalogues and special quotations on application.

When writing to Advertisers mention The National Nurseryman.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

Apple, Cherry, Pear
Plum, Peach, Apricots
Apple Seedlings, and
Mahaleb, Pear Seedlings, Forest Tree
Seedlings, Apple
Scions

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

When writing to Advertisers mention The National Nurseryman.

August Rölker & Sons

Established 1835

31 Barclay Street,
P. O. Box 752

NEW YORK

FRUIT STOCKS

Evergreens Ornamentals,
Manetti and Multiflora

Roses, and all other French Nursery Stocks, grown by

Elmire Sebire, Fils Aine, Ussy, (Calvados) France

HOLLAND GROWN

Hardy Azaleas, Rhodo-
dendrons, Hybrid,

Perpetual and Tree Roses, Lilac, Boxwood, Shrubs, Specimen Evergreens and Ornamental Trees, etc.

SEEDS

French Apple and Pear, Mahaleb, Myrobalan, Japan Pear etc.

RAFFIA FIBRE

IN BEST GRADE

Always in Stock

All importations made through us will receive prompt and careful attention, at cost rates.

PRICES ON APPLICATION

APPLES

100,000 2 and 3-year-old, in large assortment, as fine as grows.

PEACH

185,000. 50 leading sorts from Southern Natural Pits grown on new land.

ASPARAGUS ROOTS

1,250,000 Fine, Strong 1 and 2-year plants. Palmetto, Barr's, Donald's and Giant Argenteuil.

These are our specialties for the trade and we invite correspondence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia Dewberries, and Large Norway Maples

WEST JERSEY NURSERY CO.

STANTON B. COLE,

BRIDGETON, N. J.

THE NEW BLACKBERRY

WARD

By Far the Best Market Blackberry Now Before the Public.

For description and price address either

CHAS. BLACK,

D. BAIRD & SON,

OR

Hightstown, N. J.

Baird, N. J.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries,

W. C. REED, Proprietor

VINCENNES,

INDIANA

We offer for Fall 1903 the following in Car Load Lots or Less

Apple 2 and 3 Year

Peach, One Year

Standard and Dwarf Pear

Plum, One and Two Year

Cherry, One Year

Carolina Poplar

Cut Leaved and Silver Maples

Catalpa Speciosa Seedlings

Also good assortment of Small Fruits, Ornamentals, etc.

Call and see US and look over our plant, or send list of wants for Quotations.

Would be pleased to meet you at Detroit.

KNOX NURSERIES ¹⁸⁵¹/₁₉₀₃

WE OFFER FOR SPRING

the following well grown, thrifty stock. We shall be pleased to quote price on application.

APPLE. 2 and 3 year, mostly $\frac{3}{4}$ and up. Ben Davis, Grimes, Ingram, Jonathan, Y. Imperial, Akin, N. W. Greening, Wine Sap, etc.

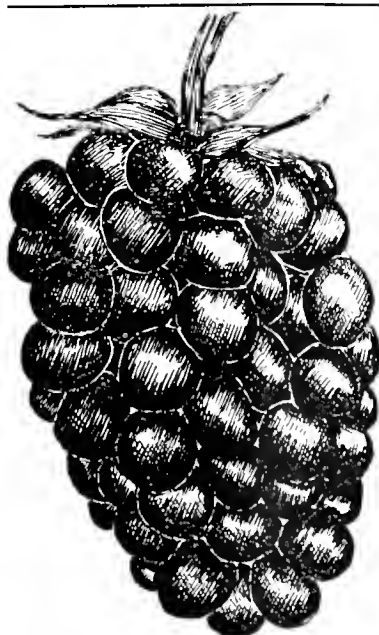
CHERRY. 1 year, $\frac{5}{8}$ and all up. Fine stock of elegant trees.

PEACH. 9-16 and up, and some small grades. Elberta and leading sorts.

KANSAS RASPBERRY TIPS.

SNYDER BLACKBERRIES. Sucker plants.

H. M. SIMPSON & SONS,
VINCENNES, IND.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

WHOLESALE NURSERIES

We have a full line of stock for Nurserymen and Dealers, including APPLE GRAFTS PUT UP TO ORDER, PIECE OR WHOLE ROOTS, Thirty-five years in the business.

THE ONLY PRACTICAL BOX CLAMP IN USE—CHEAP

R. H. BLAIR & CO., Proprietors of
LEE'S SUMMIT NURSERIES.

N. W. CORNER 11TH AND WALNUT STS., KANSAS CITY, MO.

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

—TO—**ST. LOUIS, KANSAS
CITY AND OMAHA.**

FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,

ST. LOUIS, MO.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention the National Nurseryman.

250,000 PALMS

KENTIAS, PHOENIX, LATANIAS, PANDANUS and
OTHER GOOD SORTS.

ORANGES, KUM KWATS, LEMONS, and LIMES
Fine shapely plants. Grafted on Trifoliata stock.

CHERRIES, 5-6 ft. and 4-5 ft.

PLUMS—Abundance, RED NAGATE and other stand-
ard sorts.

FIGS—1 and 2 years. PEACHES—All the leading sorts.

WALNUTS—English and Japan.

MULBERRIES, POMEGRANATES, LOQUATS AND
OLIVES. SCUPPERNONGS and other GRAPES

HEDGE PLANTS—Thirty acres planted in AMOOR
RIVER PRIVET. The best evergreen hedge plant.

500,000 CITRUS TRIFOLIATA (Hardy Lemon.)

BIOTA AUREA NANA in immense quantities.
CEDRUS DEODARA, RETINOSPORAS, JUNIPERUS,
LIBOCEDRUS DECURRENS, and other CONIFERS.

We have the largest stock of ornamentals ever grown in the
south. Can supply same in earload lots. No Scale. No Disease.

WRITE FOR PRICES.

P. J. Berckmans Co.

(INCORPORATED)
FRUITLAND NURSERIES,

Established 1856.

Over 400 Acres in Nursery.

AUGUSTA, Ga.

60,000 Feet of Glass.

THE

Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PAEONIAS - Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to advertisers mention The National Nurseryman.

TRANSON BROTHERS' & D. DAUVESSE'S NURSERIES
BARBIER & CO. *SUCCESSORS.*

16 Route d'Olivet, Orleans, France.

—OUR PRELIMINARY LIST OF—
NURSERY STOCKS

Is Just Issued and May be Had from our Agents,

Messrs. KNAUTH, NACHOD & KUHNE,
 13 William Street, New York.
WRITE FOR IT!

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,
 509 Arch Street, PHILADELPHIA, Pa.

A large stock of Clematis, leading varieties.
 Not Quite a Million but an Immense Quantity.

Write for Prices.

P. W. Butler, East Penfield, N. Y.

E. T. DICKINSON, Chatenay Seine,
 GROWER AND EXPORTER, France.

HAS TO OFFER FRENCH NURSERY STOCKS, DUTCH BULBS, GLADIOLI, &c.
 Fruit Tree Seedlings and Ornamentals. Pear, Apple, Plum and Cherry and Angers Quince Cuttings. All grown specially for the American trade. Pear and Crab Apple Seed. The most complete assortment of ORNAMENTAL STOCKS, TREES AND SHRUBS. Orders solicited and booked now at low rates.

E. T. DICKINSON, - - - 1 Broadway, New York.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,
 Proprietor of Beacon Building,
 Highlands Nursery, N. C. BOSTON, MASS.

CHARLES DETRICHE, Senior,
 ANGERS, FRANCE,
 Grower and Exporter of Fruit Tree Stocks, Forest Trees and Ornamentals.

Extra Large Assortments of Shrubs, Conifers, etc.
 Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriché would be glad to receive any horticultural catalogues or papers.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,
 213-23 Pearl St., Norristown, Pa.

GRAPE

ALL OLD AND NEW VARIETIES
 Immense Stock Warranted True.
 QUALITY UNSURPASSED.
 A fine stock of Campbell's Early.
 Catalogue and Price List Free.
 Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
 FREDONIA, N. Y.

VINES

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

FOR SPRING 1903

Send Us Your Want List.

We have 150,000 Peach, including 25,000 Elberta; 250,000 Apple; also Pear, Cherry, Plum, and a general assortment of other stock. Asparagus, 1 and 2 year. Privet, extra fine, 1 year. Several thousand extra large Shade Trees. SURPLUS LIST NOW READY. We cellar no stock. All fresh from the nursery rows.

FRANKLIN DAVIS NURSERY CO.,
 BALTIMORE, MARYLAND.

When writing to Advertisers mention The National Nurseryman.

WE OFFER FOR FALL DELIVERY

The Following Well Grown and Graded Stock

200,000 Apple Trees
600,000 Peach Trees
1,000,000 June Budded Peach Trees
100,000 Pecan Trees, 6 in. to 2 ft.
40,000 Cherry Trees
35,000 Pear Trees
5,000 Evergreens
25,000 Roses, 2 years old

Let Us Figure with You on Your Fall Wants.

SOUTHERN NURSERY COMPANY
WINCHESTER, TENN.

McNARY & GAINES, XENIA STAR NURSERIES, XENIA, OHIO.

A General Line of Superior Stock, Grown Especially for the Wholesale Trade.

APPLE As heretofore, our Apples are equal to the very best. This refers to the entire tree, top, body, and root. Sixty varieties.

PEAR Standard, dwarf and high top. Good general assortment, including choice Kieffer.

CHERRY The Cherries grown by us are absolutely unexcelled, and we repeat our last year's claim: "We have the best cherry in the United States." You are invited to verify this by a personal inspection of our blocks.

PLUM General assortment on plum and on peach roots, including the leading varieties of European, Japan, native and new hybrids.

PEACH Very promising blocks. Full list of leading and best kinds. Strong on Elberta and Champion.

OTHER STOCK.

We will have our usual stock of Grape Vines, Small Fruits, Ornamental Trees, Shrubs, Vines, Etc.

OUR LEADING THE SPECIALTY OPALESCENT APPLE

is the best seller now offered by retail nurserymen. It is offered on its merits, and it is a variety of undoubted value that will do your customers good. Supplied on special contract only. Plates free.

A personal inspection of our entire stock is cordially invited. An opportunity to submit prices is respectfully requested.

McNARY & GAINES,
XENIA, OHIO.

When writing to Advertisers mention The National Nurseryman.

HOT BED SASH AND FRAMES

Adapted for growing Vegetables, Violets, Etc.

The Best is the Cheapest

Our Hot Bed Sash are made of Red Gulf Cypress Strictly Free from Sap. They are made in a thorough manner and combine strength with durability. Joints are white leaded and fitted with steel dowel pins. Each sash is furnished with an iron rod running through the sash bars, tying the sash through the center and supporting the bars. They are glazed with good quality double thick glass and painted two coats. We keep them in stock 3 ft. x 6 ft. Other sizes made to order.

Also carry in stock Cypress Hot Bed Frames to hold any number of sash. These are portable so they can be readily taken apart for storage when not in use.

Freight Allowance covers most points in Eastern and Middle States.

Can make Prompt Shipments.

Write to our New York Office for price list and circular.

GREENHOUSE HEATING AND VENTILATING CATALOGUE
also GREENHOUSE CONSTRUCTION CATALOGUE mailed upon receipt of five cents postage for each.

LORD & BURNHAM COMPANY

NEW YORK OFFICE, St. James Building, Broadway and 26th St.
GENERAL OFFICE and WORKS, Irvington-on-Hudson, New York.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

===== HAVE TO OFFER =====

APPLE, CHERRY, PEACH

KIEFFER PEAR

(2 yr.)

=====

SHADE TREES

JAPAN PEAR SEEDLING OSAGE CATALPA

GRAPE VINES BECHTEL'S FLOWERING CRAB

When writing to Advertisers mention The National Nurseryman

McHUTCHISON & CO.,

218 FULTON STREET, CORNER GREENWICH ST., NEW YORK,

SOLE AMERICAN AGENTS FOR

VINCENT LEBRETON, La Pyramide, Angers, France.

Wholesale Growers and Exporters of French Fruit and Ornamental Seedlings, Manetti, Multilora, etc

H. W. VAN DER BOM & CO., Oudenbosch, Holland.

Extensive Nurseries of Large Evergreens, Conifers, Transplanted Flowering Shrubs, Apple Stocks, Norway Maples, etc.

SCHAUM & VAN TOL, Boskoop, Holland.

Wholesale Growers of Dwarf and Standard Roses, Peonies, Clematis, Evergreens, Hardy Azaleas and general Boskoop Nursery Stock.

JAPANESE NURSERY STOCK,

Japanese Maples, Sciadopitys, Iris, Ilex Crenata, etc.

RAFFIA Red Star Brand

Best grade of Madagascar Raffia, selected for Nurserymen. In stock, or price quoted for ten or more bales for direct import.

Write for Prices. Send for Catalogue of above firms.

McHUTCHISON & CO.,

218 FULTON STREET, CORNER GREENWICH STREET, NEW YORK.

Custom House Brokers and Forwarders.

We Have in Quantity for Fall Trade

APPLE TREES

CHERRY TREES

APPLE SEEDLINGS

We will make special prices on seedlings for orders placed now.

CLEAN STOCK.

ALL GRADES.

F. W. WATSON & CO.

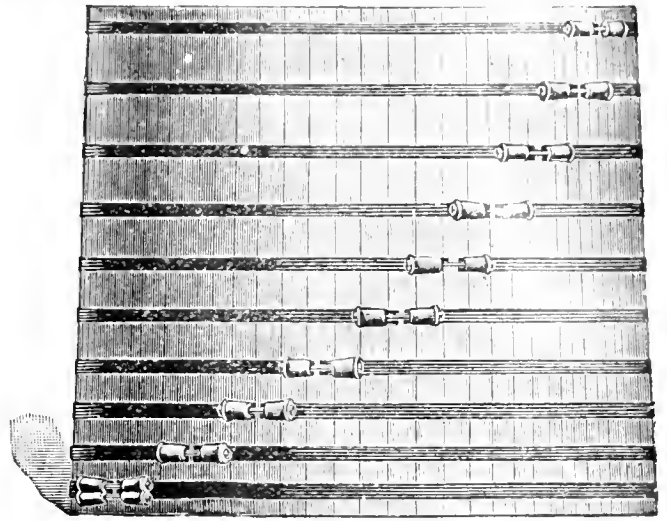
TOPEKA, KAN.

When writing to Advertisers mention The National Nurseryman.

DOWN IN THE SWAMPS

of Louisiana grows the Red Gulf Cypress, the wonderful tree that furnishes the material used in the

CALDWELL TANKS



No other wood answers the purpose so well. The Caldwell Tanks do not warp or twist. There is practically no shrinking or swelling and the prices are low, as our catalogue and price list will prove.

W. E. CALDWELL CO.,
LOUISVILLE, KY.

WILLIS NURSERIES

OTTAWA, KANSAS.

Offers for the Fall of 1903,
a large general assortment of

CHOICE NURSERY STOCK,

including

100,000 APPLE,
Choice 2 yr. trees.

75,000 PEACH,

20,000 CHERRY,

150,000 GRAPES.

Correspondence Solicited.

Willis Nurseries.

OTTAWA, KANSAS.

When writing to Advertisers mention The National Nurseryman.

BRIDGEPORT NURSERIES

Grow one of the most complete lines of Hardy Nursery Stock in the country, and have for

FALL 1903 AND SPRING 1904

In quantities to suit customers — CAR-LOAD LOTS, or LESS, at prices that will interest you.

Apple
Plum
Peach
Grapes
Gooseberries
Raspberries

C. Poplar
Norway Maple
Catalpa
Chestnuts
Shrubs
Roses

Pear
Cherry
Quince
Currants
Strawberries
Blackberries

Silver Maple
Hard Maple
Box Elder
Evergreens
Vines
Etc.

APPLE SEEDLINGS

Mariana Plum Stocks.

Imported Seedlings.

APPLE AND PEAR GRAFTS

POMONA—Currant the most profitable.

SPADES—The BEST and CHEAPEST.

EXCELSIOR (baled). The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE
Cheaper, and far superior to Moss.

Our STORAGE and SHIPPING facilities are unsurpassed.

Trade-list ready about September 1st.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

THE VILLAGE NURSERIES, HARNEDSVILLE SOMERSET COUNTY, PENNA.

We offer to the trade for Fall of 1903, and Spring of 1904, a large and complete line of Apple, Pear, Plum and Peach Trees, 1,000,000 trees healthy, no finer trees anywhere in the United States. Your want list and correspondence solicited. Certificate of inspection showing clean bill of health goes with each and every shipment.

The following is an extract from a prominent New York Nurseryman who bought a carload of Peach trees from us last fall, and who is very particular in regard to the stock he buys:
Gentlemen:—

THE VILLAGE NURSERIES, Harnedsville, Pa., November 11th, 1902

Your favor of the 6th inst. has been received and contents noted. We have also received the Peach trees in good order, and we think it but right that you should know that we are pleased with them in every way. The trees, the count and the correspondence has all been very satisfactory to us.

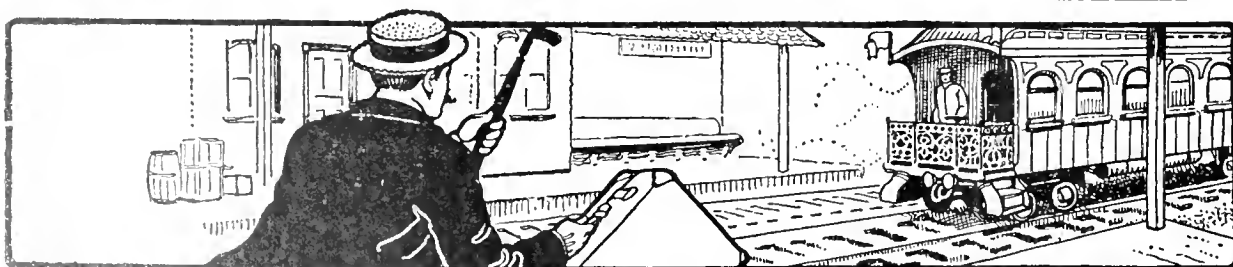
This is only one of many letters of this kind received last fall, and our stock of Peach trees will be superior this fall to any we have ever grown.

LEST YOU FORGET

We call attention to the fact that the label season, like eternity, is "near at hand."

Although we are accumulating an unusually large stock, the "early bird" will enjoy his usual prestige. We are wasting no sentiment on the worm, it's his misfortune.

Benjamin Chase, Derry, N. H.



I Will Meet You in Detroit.

Don't wait until
the last minute
to order

RAFFIA

and when you order it buy the very best quality.
Good strong white Raffia is what you want.
That's RED ★ STAR brand. You can't get it
everywhere. Write for prices. Immediate
shipment.

THOS. MEEHAN & SONS, Inc.

**DRESHERTOWN,
MONTG. CO. PA.**

WHOLESALE DEALERS AND IMPORTERS OF RAFFIA.

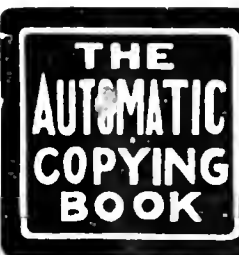
PEACHES TO BUD

On Contract For Fall delivery of 1904.

Healthy Stock, Good Soil, Good Grading.

We offer 250,000 Peach trees for Fall delivery. General assortment; both Northern and Southern varieties.

IRVING JAQUAY CO., Benton Harbor, Mich.



COPIES WHILE YOU WRITE

Simplest and best. Always ready; use any pen and paper. No press and no trouble. Prevents costly mistakes. Samples of work and endorsements free. Duplicating Books of all Kinds Made to Order.

PERSHING & CO.,

142 Michigan Street, SOUTH BEND, IND.

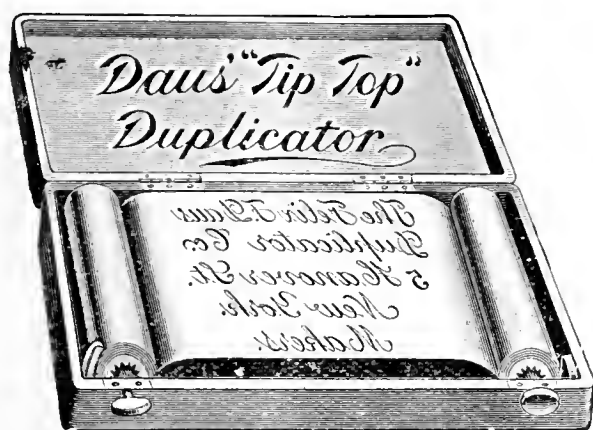
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Kills Insects on Currants, Potatoes, Cabbages and Flowers
USED 22 YEARS

SOLD BY SEEDSMEN EVERYWHERE

Send for Free Booklet on Bugs and Blights to

B. HAMMOND, FISHKILL-ON-HUDSON, NEW YORK



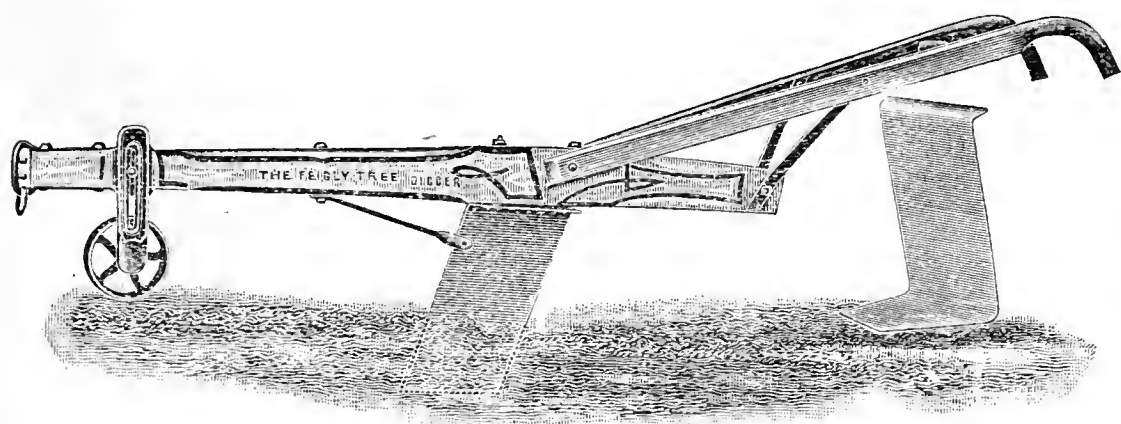
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TO PROVE that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

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No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33 1/3 per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.



The Improved FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

—MANUFACTURED BY—

D. FEIGLY, MEDWAY, O.

SOLE AGENT.

Send for Circular.

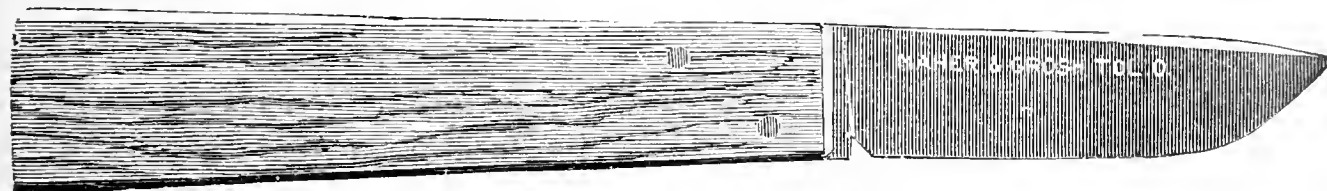
**Nurserymen
Wanted.....**

EXPERIENCED BUDDERS at
Louisiana, Mo., Starkdale,
Mo., Farmington, Ark., Dansville,
N. Y. Apply on premises, or address
Stark Bro's N. & O. Co.,
Louisiana, Mo.

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and grove. For fence posts, telegraph and telephone poles, most lasting timber known. For best plants and prices write

A. E. WINDSOR, HAVANA, ILL



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2.25.
BUDDING KNIFE with folding blade, No. 93. By mail 35 cents; 6 for \$1.75.
GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.
SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

Nurserymen's KNIVES

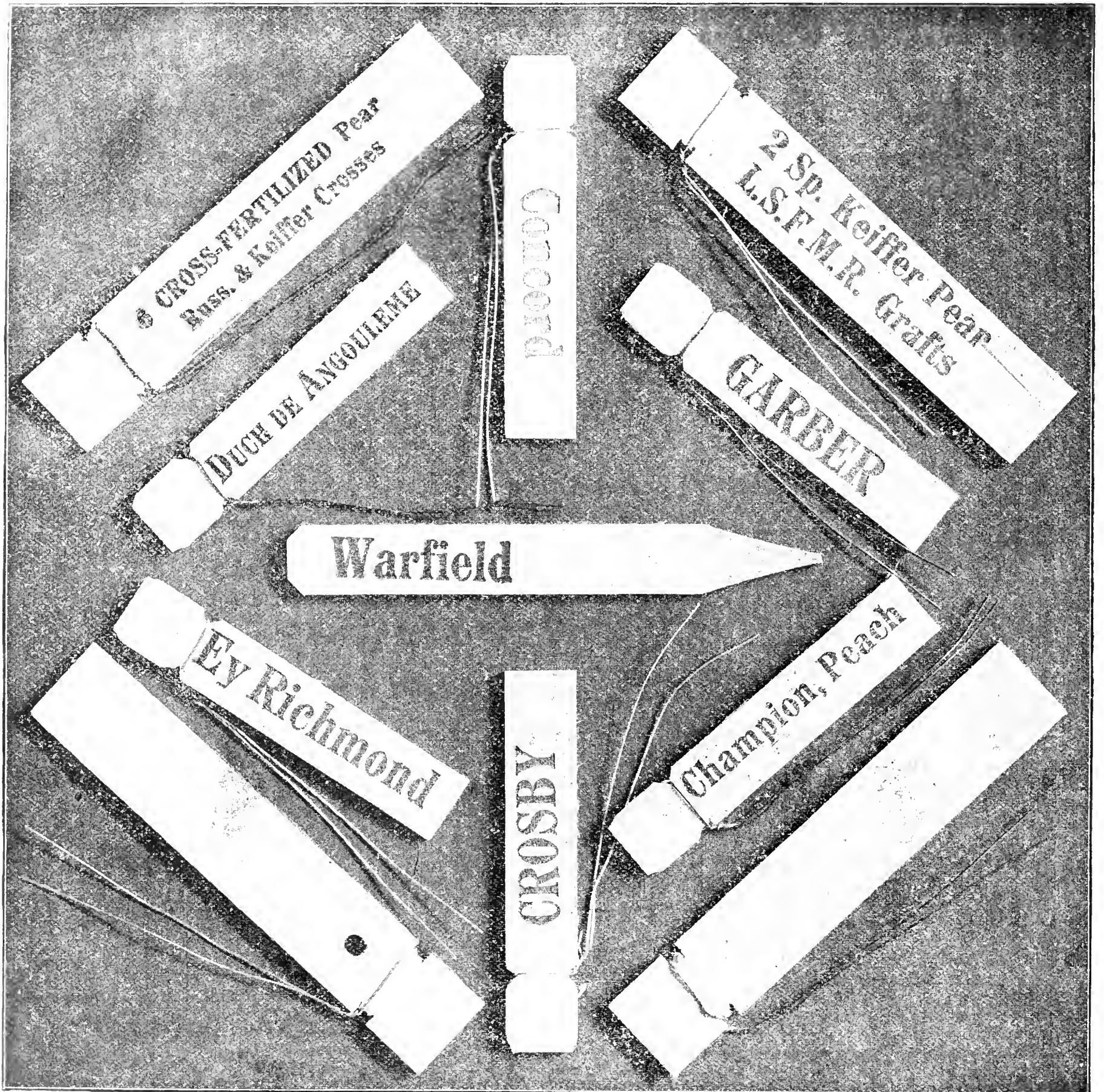
Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

When writing to Advertisers mention The National Nurseryman.

DAYTON FRUIT TREE LABEL CO.

MANUFACTURERS OF
PLAIN PAINTED **WOOD LABELS** PRINTED & WIRED
OF EVERY VARIETY FOR
NURSERYMEN AND FLORISTS.



The above description gives you but a faint idea of the different kinds and styles of printed labels, and we especially call your attention to the style of type used, being a bold face it will not be easily obliterated in handling or by being exposed to the weather.

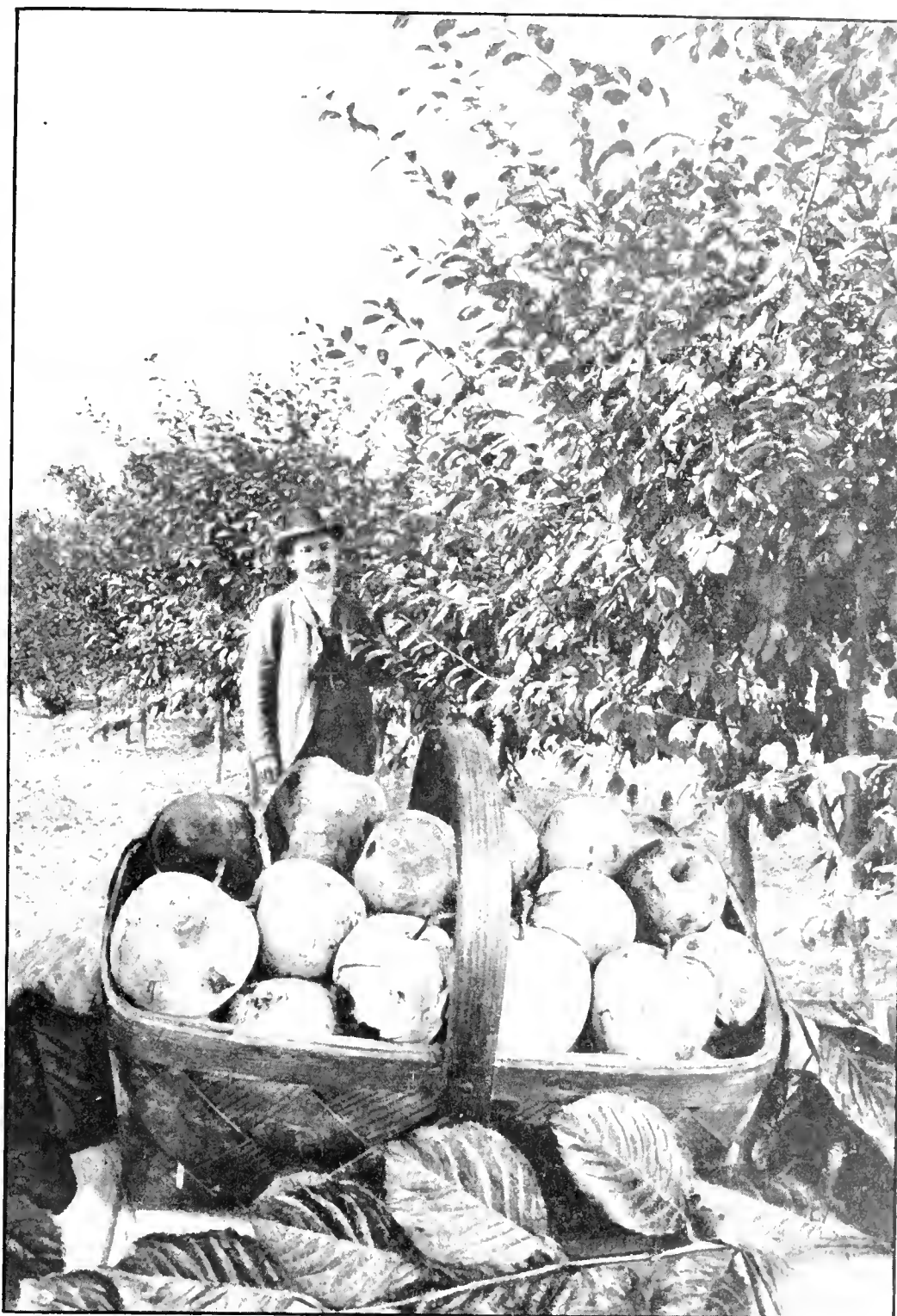
The high standard quality of our labels together with promptness in filling orders, should merit us a trial.

SAMPLES AND PRICES CHEERFULLY GIVEN.

DAYTON FRUIT TREE LABEL CO., DAYTON, OHIO.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

*The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty*



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

*Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL*

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

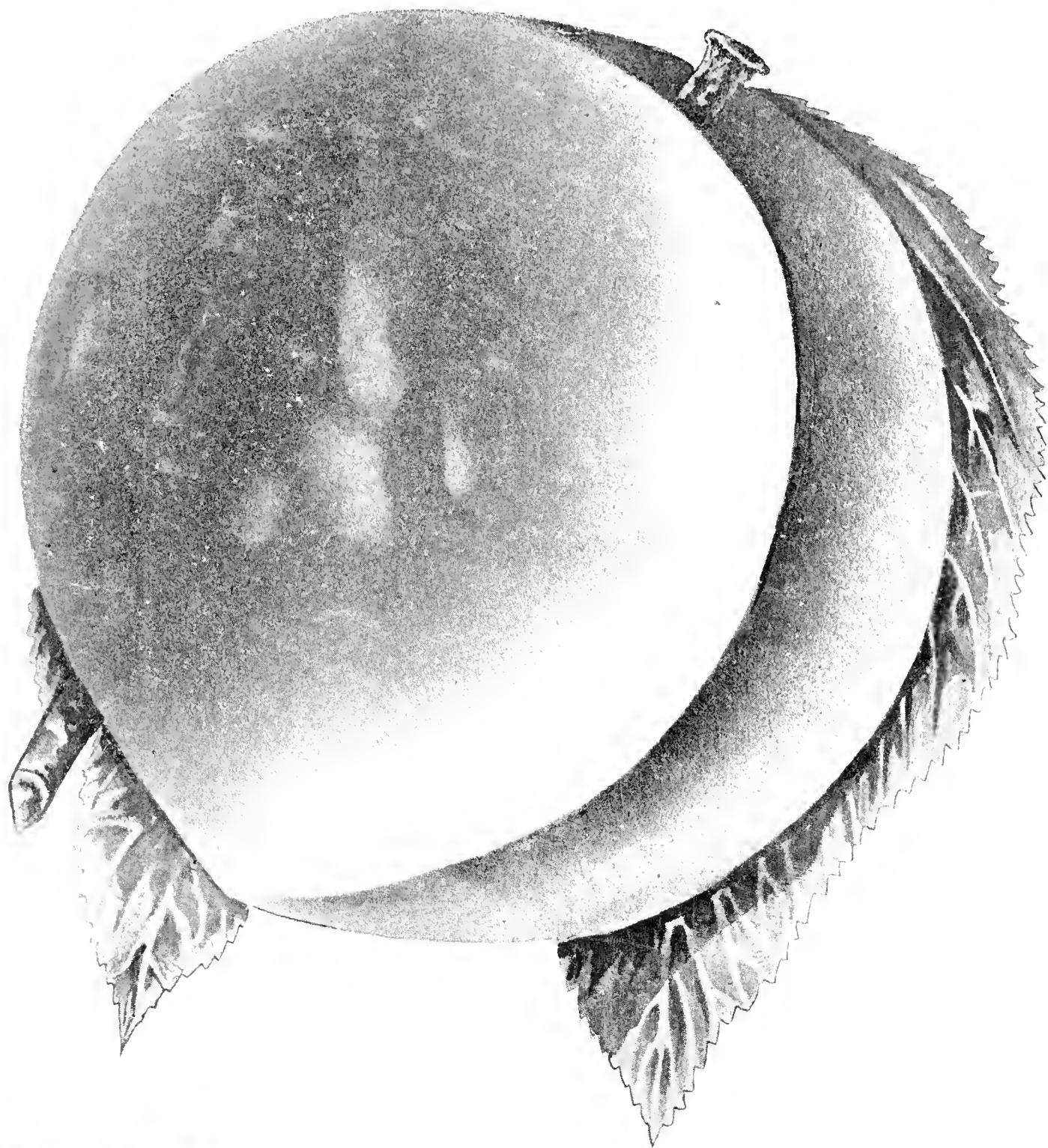
Dated at Santa Rosa, Cal., this 1st day of December, 1902.

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

WE HAVE APPLE SEEDLINGS, 3-16 and all up, both straight and branched roots. Grown in Iowa.
APPLE TREES, 2-year grafts, $\frac{3}{4}$ all up, 5-8 to $\frac{3}{4}$, $\frac{1}{2}$ to 5-8.



PEACH, $\frac{1}{2}$ to 9-16, 9-16 to 5-8, and 5-8 all up.
Smooth stock.

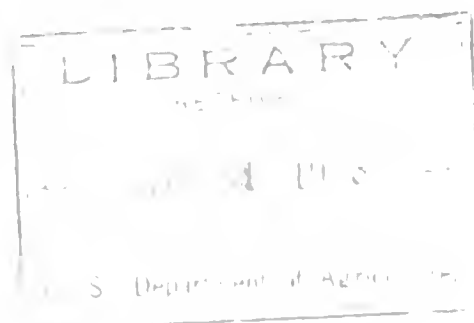
KIEFFER PEAR, 2 year, $\frac{3}{4}$ all up, 5-8 to $\frac{3}{4}$, $\frac{1}{2}$ to 5-8.

Buds ready July 10th—Peach, Apple and Pear.

J. G. HARRISON & SONS

Come and see our stock.

BERLIN, MD.



August, 1903

Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.

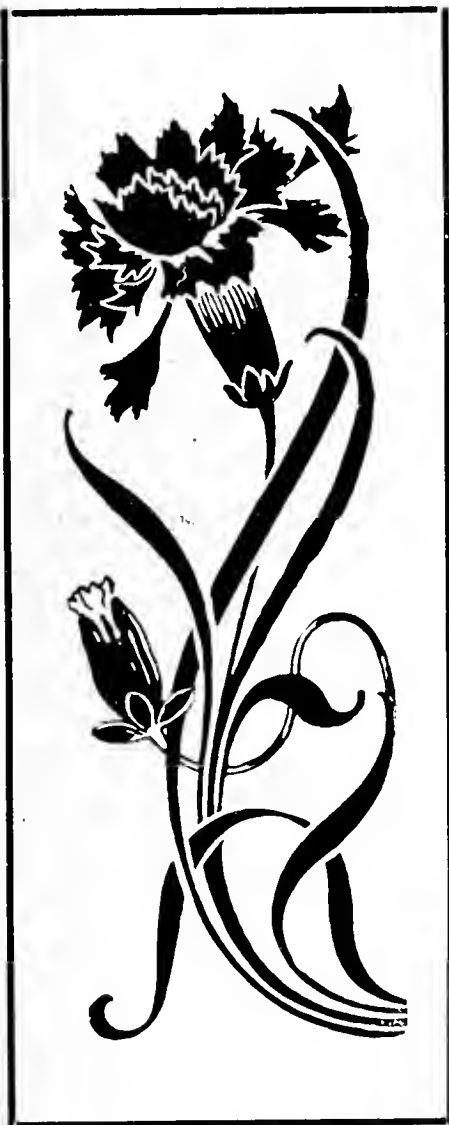


Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Offer one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds



One million Peach Trees, grown on bank of Lake Erie. No healthier, better trees can be produced.

Fine blocks 2 and 3 year Standard and Dwarf Pear, Apple, Cherries and Plums.

Call especial attention to our **Small Fruit Department**—immense stock all leading varieties, highest grade, packed right. Currants, Gooseberries, Blackberries, Raspberries, Grape Vines, Etc.

Roses — Largest acreage field-grown plants in the world.

Clematis—Large flowered and Paniculata, Ampelopsis Veitchii in large supply with all other leading varieties vines and shrubs. Ornamental Hedge Plants, California Privet, Japan Quince, Berberry Thunbergii, Purple and Green Leaf, Tartarian Honeysuckle, etc.

Direct importations from leading Holland, Belgium and French growers of Chinese Azaleas, Palms, Bulbs, etc.



Let us estimate on your list of wants. Special rates on car lots for fall shipment or stored for spring delivery. Personal inspection cordially invited ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;

CATALOGUES AND PRICE-LISTS FREE

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs

Roses

Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.

MOUNT HOPE NURSERIES,
Rochester, N. Y.

Established 1840. Mention this paper.

AUG. RHOTERT

(Established 1893.)

26 BARCLAY STREET.
P. O. Box 1250,

NEW YORK

TELEPHONE: 2855 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES, (Established 1795.) Angers, (France)

French Fruit and Ornamental Stocks, Specimen Evergreens and Ornamental Trees, Shrubs, Roses, Magnolias, etc., of best Quality, Packing, Grading. Prompt deliveries.

M. KOSTER & SONS, - - - Boskoop (Holland)

Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and Rhododendrons, Magnolias, Hydrangeas, fine Specimen Evergreens and Fancy Ornamental Trees. Careful Packing, complete and prompt deliveries.

Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) Annan (Scotland)

English Manettis, Norway Maples and Spruce, Birch, Beech Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Quality, Grading and Packing.

TREE SEEDS, Apple and Pear Pips, Myrobolan, Mahaleb and Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!

Very Best Selected Fibre.
From Stock or for Import.

WHOLESALE ONLY. Catalogues and special quotations on application.

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AN ATTRACTIVE SPECIALTY FOR NURSERYMEN
AND DEALERS IS OFFERED IN OUR

NEW PEDIGREED CLIMBING ROSE

DOROTHY PERKINS

A SEEDLING ROSE OF OUR OWN ORIGINATING.
AWARDED A SILVER MEDAL AT THE PAN-AMERICAN.
SEND FOR DESCRIPTIVE CIRCULAR.

Handsome Four Page Circulars will be furnished with customer's name, address, etc., imprinted at \$2.00 per 100, their actual cost.

Electrotypes of any of the cuts used in this circular will be furnished for catalogue use.

Handsome Lithographed Plates for Salesmen's Use will be supplied to concerns who employ agents. Samples mailed on application. We do not offer these plates for indiscriminate distribution but only for the use in salesmen's outfits. When furnished in considerable numbers, a memorandum charge of 1½ cents each will be made for them but such charge will be credited back upon orders for rose bushes of this variety.

FOR 1903-1904, STRONG, FIELD-GROWN
PLANTS, TWO YEARS OLD.

JACKSON & PERKINS CO.

Wholesale Nurserymen,

NEWARK, New York.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Apple Seedlings, and
Mahaleb, Pear Seed-
lings, Forest Tree
Seedlings, Apple
Scions*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

When writing to Advertisers mention The National Nurseryman.

W. T. HOOD & CO.

Old Dominion Nurseries

RICHMOND, VA.

OFFERS FOR FALL 1903 AND SPRING 1904

California Privet, fine stock 1 and 2 yr. old; Japan Plums; Apricots on Apricot; Sugar Maples and American Elms; Small NATURAL PEACH PRUNES, Crop 1903; and General line of Nursery Stock.

PRICES ON APPLICATION.

We will be short on some varieties of Apples, Std. Pears and small sized Peach for Fall delivery, and would be pleased to receive quotations on same.

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

TO ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

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St. Louis, Mo.

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287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

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250,000 PALMS

KENTIAS, PHOENIX, LATANIAS, PANDANUS and
OTHER GOOD SORTS.

ORANGES, KUM KWATS, LEMONS, and LIMES

Fine shapely plants. Grafted on Trifoliata stock.

CHERRIES, 5-6 ft. and 4-5 ft.

PLUMS—Abundance, RED NAGATE and other standard sorts.

FIGS—1 and 2 years. PEACHES—All the leading sorts.

WALNUTS—English and Japan.

MULBERRIES, POMEGRANATES, LOQUATS AND
OLIVES. SCUPPERNONGS and other GRAPES

HEDGE PLANTS—Thirty acres planted in AMOOR
RIVER PRIVET. The best evergreen hedge plant.

500,000 CITRUS TRIFOLIATA. (Hardy Lemon.)

BIOTA AUREA NANA in immense quantities.

CEDRUS DEODARA, RETINOSPORA, JUNIPERUS,
LIBOCEDRUS DECURRENS, and other CONIFERS.

We have the largest stock of ornamentals ever grown in the
south. Can supply same in carload lots. No Scale. No Disease.

WRITE FOR PRICES.

P. J. Berckmans Co.

(INCORPORATED)
FRUITLAND NURSERIES,

Established 1856.

Over 400 Acres in Nursery.

AUGUSTA, Ga.

60,000 Feet of Glass.

THE Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA, NEW YORK.

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Fall Bulbs and Plants

WE ARE HEADQUARTERS FOR
Tulips, Hyacinths, Crocus
and all varieties of Fall Bulbs and
Plants, both hardy and tender

50,000
Shasta Daisy Plants, strong field grown

We make a specialty of filling and packing
Nurserymen's orders complete, ready for delivery.

James Vick's Sons
ROCHESTER, N. Y.

APPLES 100,000 2 and 3-year-old, in large
assortment, as fine as grows.
PEACH 185,000. 50 leading sorts from South-
ern Natural Pits grown on new land.
ASPARAGUS 1,250,000 Fine, Strong 1 and
ROOTS 2-year plants. Palmetto, Barr's,
Donald's and Giant Argenteuil.

These are our specialties for the trade and we invite correspond-
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We also grow California Privet, Japan Plums, Golden Glow, Lucretia
Dewberries, and Large Norway Maples

WEST JERSEY NURSERY CO.
STANTON B. COLE, - BRIDGETON, N. J.

THE NEW BLACKBERRY
WARD

*By Far the Best Market Blackberry Now
Before the Public.*

For description and price address either

CHAS. BLACK, D. BAIRD & SON,
Hightstown, N. J. OR Baird, N. J.

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Vincennes Nurseries,

W. C. REED, Proprietor

VINCENNES, INDIANA

We offer for Fall 1903 the following in Car
Load Lots or Less

Apple 2 and 3 Year
Peach, One Year
Standard and Dwarf Pear
Plum, One and Two Year
Cherry, One Year
Carolina Poplar
Cut Leaved and Silver Maples
Catalpa Speciosa Seedlings.

Also good assortment of Small Fruits,
Ornamentals, etc.

Call and see US and look over our
plant, or send list of wants for Quota-
tions.

Would be pleased to meet you at Detroit.

KNOX NURSERIES 1851 1903

WE OFFER FOR SPRING

the following well grown, thrifty stock. We shall be pleased to quote
price on application.

APPLE. 2 and 3 year, mostly $\frac{3}{4}$ and up. Ben Davis, Grimes,
Ingram, Jonathan, Y. Imperial, Akin, N. W. Greening,
Wine Sap, etc.

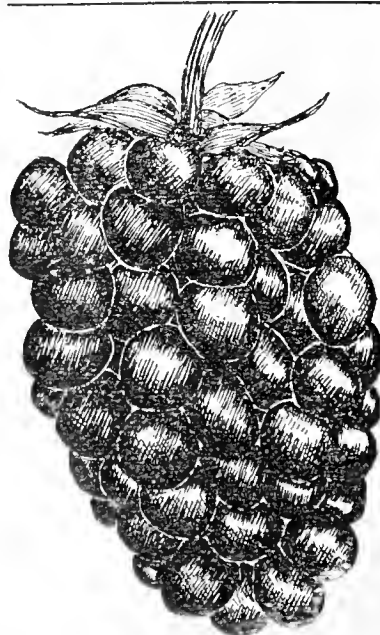
CHERRY. 1 year, $\frac{5}{8}$ and all up. Fine stock of elegant trees.

PEACH. 9-16 and up, and some small grades. Elberta and
leading sorts.

KANSAS RASPBERRY TIPS.

SNYDER BLACKBERRIES. Sucker plants.

H. M. SIMPSON & SONS,
VINCENNES, IND.



STRAWBERRY and RASPBERRY plants
of all the new and old sorts in large
or small quantity.

PREMO DEWBERRY. No one can afford
to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG
BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We
have the finest lot of June budded
Peach we ever saw grow, also a
general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

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P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

ELMIRE SEBIRE, Fils Aine, Ussy, Calvados, France

Grower and shipper of Nursery Stock; *Ornamentals*, trees and shrubs, *Evergreens*, *Conifers* *Forest Trees*, for late fall delivery; also a limited stock left of *Pear*, *Quince* and *Apple Fruit Stock Seedlings*.

Send for estimates to our sole American agents,

AUGUST ROLKER & SONS,

P. O. Box 752.

31 Barclay St., New York

Importers of *Japan* and *Dutch Nursery Stocks*, *Fruit* and *Tree Seeds*; *Raffia Fibre* in prime nurserymen's quality.

75,000

Pot Grown Strawberry Plants

If planted now will produce a full crop of **Large Luscious Strawberries** in 1904. We have these in stock in fifteen of the best varieties. Submit your list of wants for special low quotations

T. J. DWYER & SON

Orange County Nurseries,

Box 15.

CORNWALL, N. Y.

I HAVE TO OFFER FOR FALL 1903 AND SPRING 1904

A GENERAL LINE OF

Nursery Stock

I MAKE A SPECIALTY OF

CHERRY AND PLUM

Both one and two years.

Correspondence Solicited.

JAS. M. KENNEDY.

DANSVILLE, N. Y.

The Willadean Nurseries

OFFER FOR FALL 1904

Apples, Pears, Standard and Dwarf Plums, Cherry, Grape Vines, Small Fruit Plants, Rhubarb, Asparagus, Ornamentals, Shrubs, Herbaceous and Hardy Perennials.

Forest Tree Seedlings we have in quantities, over 50 kinds, nursery grown. Tree seeds we have in season in large quantities. Send us your list of wants. We can interest you. Trade list ready September 1st.

DONALDSON & GIBSON, Warsaw, Ky.

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HARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of
Highlands Nursery, N. C.

Beacon Building,
BOSTON, MASS.

CHARLES DETRICHE, Senior,

ANGERS, FRANCE,

Grower and Exporter of Fruit Tree Stocks, Forest Trees and Ornamentals.

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriché would be glad to receive any horticultural catalogues or papers.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

GRAPE

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.

Catalogue and Price List Free.

Send list of wants for prices

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TRANSON BROTHERS' & D. DAUVESSE'S NURSERIES

BARBIER & CO. SUCCESSORS.

16 Route d'Olivet, Orleans, France.

—OUR PRELIMINARY LIST OF—

NURSERY STOCKS

Is Just Issued and May be Had from our Agents,

Messrs. KNAUTH, NACHOD & KUHNE,

13 William Street,

New York.

WRITE FOR IT!

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GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and
grove. For fence posts, telegraph and telephone poles, most
lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

Peach Trees 1 yr. from bud, 300,000 Trees of lead-
ing sorts.

Plum Trees On Marianna stocks, 1 yr. from bud, Jap-
anese and American varieties, all smooth
and well-grown. Peach and Plum buds to offer.

Asparagus Roots 2 yr. old, Palmetto, Con-
overs Colossal and Barr's
Philadelphia Mammoth. For Fall of 1903.

THE DELAWARE NURSERIES,

D. S. COLLINS, Mgr.

Milford, Delaware.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD.

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

THE FRASER NURSERY

JOHN FRASER, PROP.

HUNTSVILLE, ALA.

HAVE TO OFFER FOR FALL

MANETTI and MARIANA STOCKS.

CHERRY, one year.

STD. PEAR, one and two years.

Mulberries, H. P. and Climbing Roses, Magnolia, Grandiflora, California
Privet, Hydrangeas, Althea, Chionanthus, Exochordia, Ampelopsis Veitchii,
Carolina Poplar, etc. *Write for Prices.*

Russian Apricot Seedlings

We have a large stock at very favorable prices. Black and Honey Locust
and Russian Mulberry Seedlings. 100,000 2 yr. Apple. *Get our prices.*

J. A. GAGE, Beatrice, Neb.

DREER'S HARDY PERENNIALS

SPECIALTIES

Anemone Japonica

Asters (Michaelmas Daisies)

Campanulas (Bell-Flowers)

Iriskaempfer and Germanica

Paeonies

Phlox Decussata

Pinks choice hardy sorts

Primulas

Rudbeckias

Stokesia Cyanea

Tritoma Pfitzeri

We are specialists in this class of plants and carry not only the largest
stock but the greatest variety. Our list contains many rare plants not
generally found in American collections.

Send us a list of your requirements in this line, and we shall be pleased
to quote prices which will interest you.

HENRY A. DREER,

PHILADELPHIA,

PA.



TRITOMA PFITZERI (Red-hot Poker Plant)

Glass for Greenhouses

We have a limited stock of greenhouse glass of our standard quality, double thick. Florists will be given the **Advantage** in price of our purchase, which was made before the raise.

 Send in your inquiries before the stock is sold.

Putty and other Greenhouse Building Material

Carried in stock ready for prompt shipment.

Lord & Burnham Company

New York Office, St. James Bldg., B'way & 26th St. General Office & Works, Irvington-on-Hudson, N. Y.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOVER SONS' MFG. CO.,

509 Arch Street, PHILADELPHIA, Pa.

A large stock of Clematis, leading varieties.
Not Quite a Million but an Immense Quantity.

Write for Prices.

P. W. Butler, East Penfield, N. Y.

GRAPE VINES

AND

Currant Plants

Highest Standard of Grades. Largest Stock and
Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

WE offer 1,000,000 June Bud Peach, large stock 2-yr Apple, 1-yr Pear and Cherry. Southern Mountain Natural Peach Seed and Western grown Apple Seedlings. Before placing your order write us; we can save you money.

CHATTANOOGA NURSERIES, CHATTANOOGA, TENN.

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.

HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

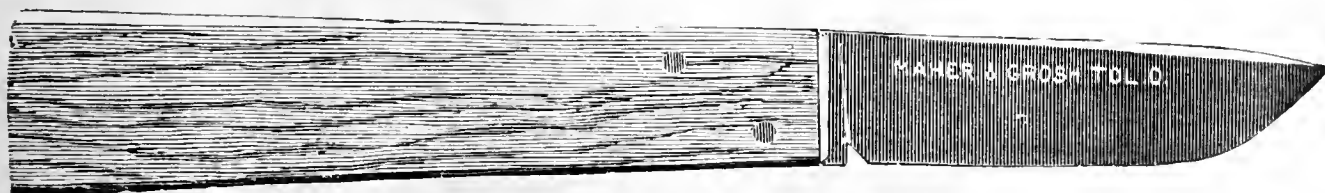
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2.25.
BUDDING KNIFE with folding blade, No. 93. By mail 35 cents; 6 for \$1.75.

GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.
SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

When writing to Advertisers mention The National Nurseryman.

Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

WE OFFER FOR FALL DELIVERY

The Following Well Grown and Graded Stock

200,000 Apple Trees
 600,000 Peach Trees
 1,000,000 June Budded Peach Trees
 100,000 Pecan Trees, 6 in. to 2 ft.
 40,000 Cherry Trees
 35,000 Pear Trees
 5,000 Evergreens
 25,000 Rosès, 2 years old

Let Us Figure with You on Your Fall Wants.

SOUTHERN NURSERY COMPANY

WINCHESTER, TENN.

McNARY & GAINES, XENIA STAR NURSERIES,

XENIA, OHIO.

A General Line of Superior Stock, Grown Especially for the Wholesale Trade.

APPLE As heretofore, our Apples are equal to the very best. This refers to the entire tree, top, body, and root. Sixty varieties.

PEAR Standard, dwarf and high top. Good general assortment, including choice Kieffer.

CHERRY The Cherries grown by us are absolutely unexcelled, and we repeat our last year's claim: "We have the best cherry in the United States." You are invited to verify this by a personal inspection of our blocks.

PLUM General assortment on plum and on peach roots, including the leading varieties of European, Japan, native and new hybrids.

PEACH Very promising blocks. Full list of leading and best kinds. Strong on Elberta and Champion.

OTHER STOCK.

We will have our usual stock of Grape Vines, Small Fruits, Ornamental Trees, Shrubs, Vines, Etc.

OUR LEADING SPECIALTY

THE OPALESCENT APPLE

is the best seller now offered by retail nurserymen. It is offered on its merits, and it is a variety of undoubted value that will do your customers good. Supplied on special contract only. Plates free.

A personal inspection of our entire stock is cordially invited. An opportunity to submit prices is respectfully requested.

McNARY & GAINES, XENIA, OHIO.

When writing to Advertisers mention The National Nurseryman.

STARK BRO'S NURSERIES & ORCHARDS CO

Growers of General Nursery Stock

CARLOAD LOTS of Apple, Peach, Plum, Cherry, Standard and Dwarf Pear, Grape, etc.

Particular attention called to large stocks of
APPLE SEEDLINGS
GRAPE VINES of the leading varieties
CURRANTS
GOOSEBERRIES
BUDDED LILACS, finest new sorts
BECHTEL DOUBLE-FLOWERED Crab, etc.



GENERAL OFFICES, Nurseries, Packing Houses, etc., LOUISIANA, MO. BRANCHES: Starkdale, Mo., Huntsville, Ala., Fayetteville, Ark., Dansville, N. Y., Atlantic, Iowa. Grape Nurseries, Portland, Chautauqua Co., N. Y.

World's Fair, St. Louis, 1904.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

HAVE TO OFFER

APPLE, CHERRY, PEACH
KIEFFER PEAR
 (2 yr.)

SHADE TREES

JAPAN PEAR SEEDLING OSAGE CATALPA

GRAPE VINES BECHTEL'S FLOWERING CRAB

When writing to Advertisers mention The National Nurseryman

Apple Trees
Peach Trees
Maples
Carolina Poplars
Hydrangeas
Japan Snowballs

Also a good stock of other Fruit
Trees and Ornamental Trees.

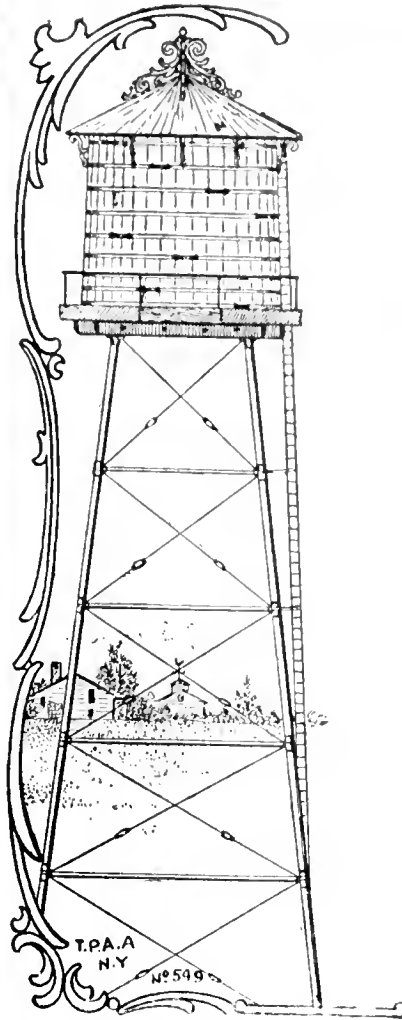


SEND LIST OF WANTS TO

George Achelis

West Chester, Chester Co., Pa.

"Absolutely Safe and Reliable. Ask Your Friends."



YOUR REPUTATION

is staked on the tank and tower
outfit you specify, and you run a
big risk if it fails.

**Caldwell's
Tanks and
Towers**

are reliable. The tanks are safe
on top of the towers and the
towers can safely hold the tanks.
And they are attractive in design
and construction too. Whatever
part of the country you are in, a
Caldwell outfit is near you. Look
at it and

Send for our Catalogue.

W. E. CALDWELL CO.,
LOUISVILLE, KY.

We Have in Quantity for Fall Trade

**APPLE TREES
CHERRY TREES
APPLE SEEDLINGS**

We will make special
prices on seedlings for
orders placed now.
**CLEAN STOCK.
ALL GRADES.**

F. W. WATSON & CO.
TOPEKA, KAN.

When writing to Advertisers mention The National Nurseryman.

WILLIS NURSERIES

OTTAWA, KANSAS.

Offers for the Fall of 1903,
a large general assortment of
CHOICE NURSERY STOCK,
including

100,000 APPLE,
Choice 2 yr. trees.

75,000 PEACH,
20,000 CHERRY,
150,000 GRAPES.

Correspondence Solicited.

Willis Nurseries.
OTTAWA, KANSAS.

When writing to Advertisers mention The National Nurseryman.

BRIDGEPORT NURSERIES

Grow one of the most complete lines of Hardy Nursery Stock in the country, and have for

FALL 1903 AND SPRING 1904

In quantities to suit customers — CAR-LOAD LOTS, or LESS, at prices that will interest you.

Apple
Plum
Peach
Grapes
Gooseberries
Raspberries

C. Poplar
Norway Maple
Catalpa
Chestnuts
Shrubs
Roses

Pear
Cherry
Quince
Currants
Strawberries
Blackberries

Silver Maple
Hard Maple
Box Elder
Evergreens
Vines
Etc.

APPLE SEEDLINGS

Mariana Plum Stocks.

Imported Seedlings.

APPLE AND PEAR GRAFTS

POMONA—Currant the most profitable.

SPADES—The BEST and CHEAPEST.

EXCELSIOR (baled). The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE
Cheaper, and far superior to Moss.

Our STORAGE and SHIPPING facilities are unsurpassed.

Trade-list ready about September 1st.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

THE VILLAGE NURSERIES, HARNEDSVILLE SOMERSET COUNTY, PENNA.

We offer to the trade for Fall of 1903, and Spring of 1904, a large and complete line of Apple, Pear, Plum and Peach Trees, 1,000,000 trees healthy, no finer trees anywhere in the United States. Your want list and correspondence solicited. Certificate of inspection showing clean bill of health goes with each and every shipment.

The following is an extract from a prominent New York Nurseryman who bought a carload of Peach trees from us last fall, and who is very particular in regard to the stock he buys:
Gentlemen:—

THE VILLAGE NURSERIES, Harnedsville, Pa., November 11th, 1902

Your favor of the 6th inst., has been received and contents noted. We have also received the Peach trees in good order, and we think it but right that you should know that we are pleased with them in every way. The trees, the count and the correspondence has all been very satisfactory to us.

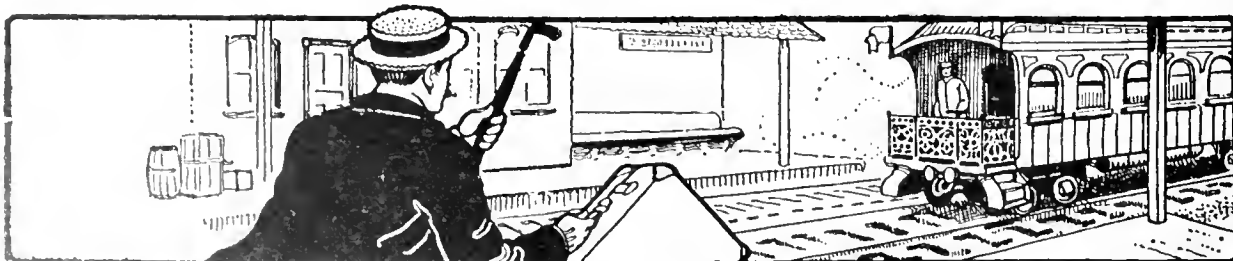
This is only one of many letters of this kind received last fall, and our stock of Peach trees will be superior this fall to any we have ever grown.

LEST YOU FORGET

We call attention to the fact that the label season, like eternity, is "near at hand."

Although we are accumulating an unusually large stock, the "early bird" will enjoy his usual prestige. We are wasting no sentiment on the worm, it's his misfortune.

Benjamin Chase, Derry, N. H.



Don't wait until
the last minute
to order

RAFFIA

and when you order it buy the very best quality.
Good strong white Raffia is what you want.

That's RED ★ STAR brand. You can't get it
everywhere Write for prices. Immediate
shipment.

THOS. MEEHAN & SONS, Inc.

DRESHERTOWN,

MONTG. CO. PA.

WHOLESALE DEALERS AND IMPORTERS OF RAFFIA.

PARTNER WANTED

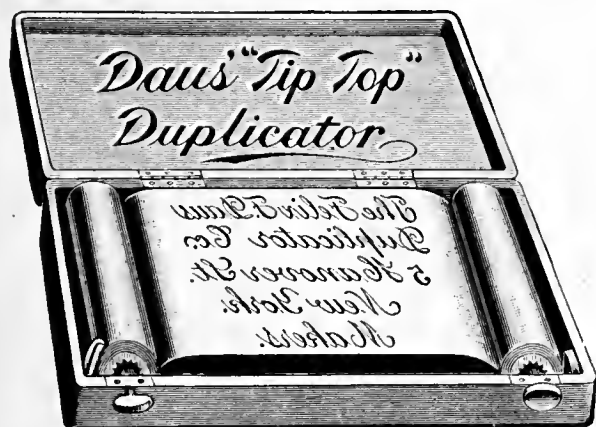
IN one of the largest Wholesale and Retail Evergreen, Ornamental, and Shade Tree Nurseries in the U. S. Will sell a one-third, but prefer to sell a one-half interest to a capable man who will come to the grounds and manage the nursery end of the business. A fine \$4,000 residence on the 160 acre nursery farm goes with the sale. Purchaser can live there with his family if he wishes to, 3½ miles from the county seat, on a straight, good road.

Reason for selling:—There is too much for one man to oversee. Present owner wishes to continue in charge of the office work, and wants partner competent to see to the nursery. Have our own teams, large outfit of tools, steam plant for watering when necessary, etc. No expenditure for outfit required to greatly enlarge the business. Good, steady hands, competent for digging, planting, packing etc., but inefficient for managing. Farm grows hay and oats for the horses, fruit and vegetables for man and family, living at nursery. Purchaser can live in town if he desires, but it would take \$25 per month to rent as good a house in the city.

This business has been established over thirty years and has customers in all parts of the U. S., and a reputation that is A No. 1 in every respect. Will give references that are as good as can be had by any concern, and shall expect same in return.

Is incorporated for \$100,000. Much of the stock was owned by heirs of a deceased principal owner, from whom present owner has bought and paid for nearly all their stock, and has option and control of all the rest. Will be willing to continue as a corporation or change to a co-partnership, as best suits the purchaser. Will deliver to partner a clear title and bill of sale of his share, free from any incumbrances whatsoever, on his purchase, as well as on the whole. If interested to the extent of desiring such a property, and having the means wherewith to purchase, please write

A NURSERY PARTNER, care National Nurseryman.



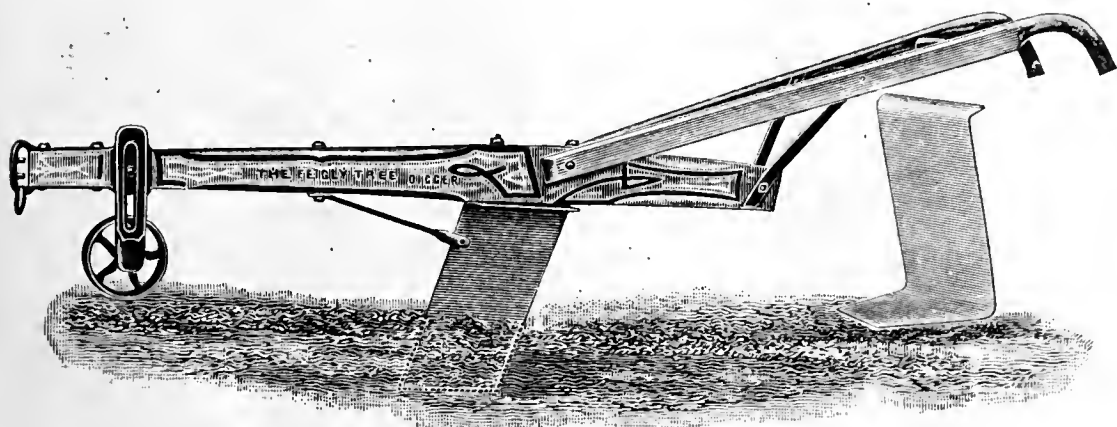
WHAT IS "TIP-TOP"?
... DAUS'

TO PROVE that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

100 copies from Pen-written and 50 copies from Type-written originals we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33½ per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.



The Improved
FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

—MANUFACTURED BY—

D. FEIGLY, MEDWAY, O.

SOLE AGENT.

Send for Circular.

DAYTON FRUIT TREE LABEL CO.

—MANUFACTURERS OF—

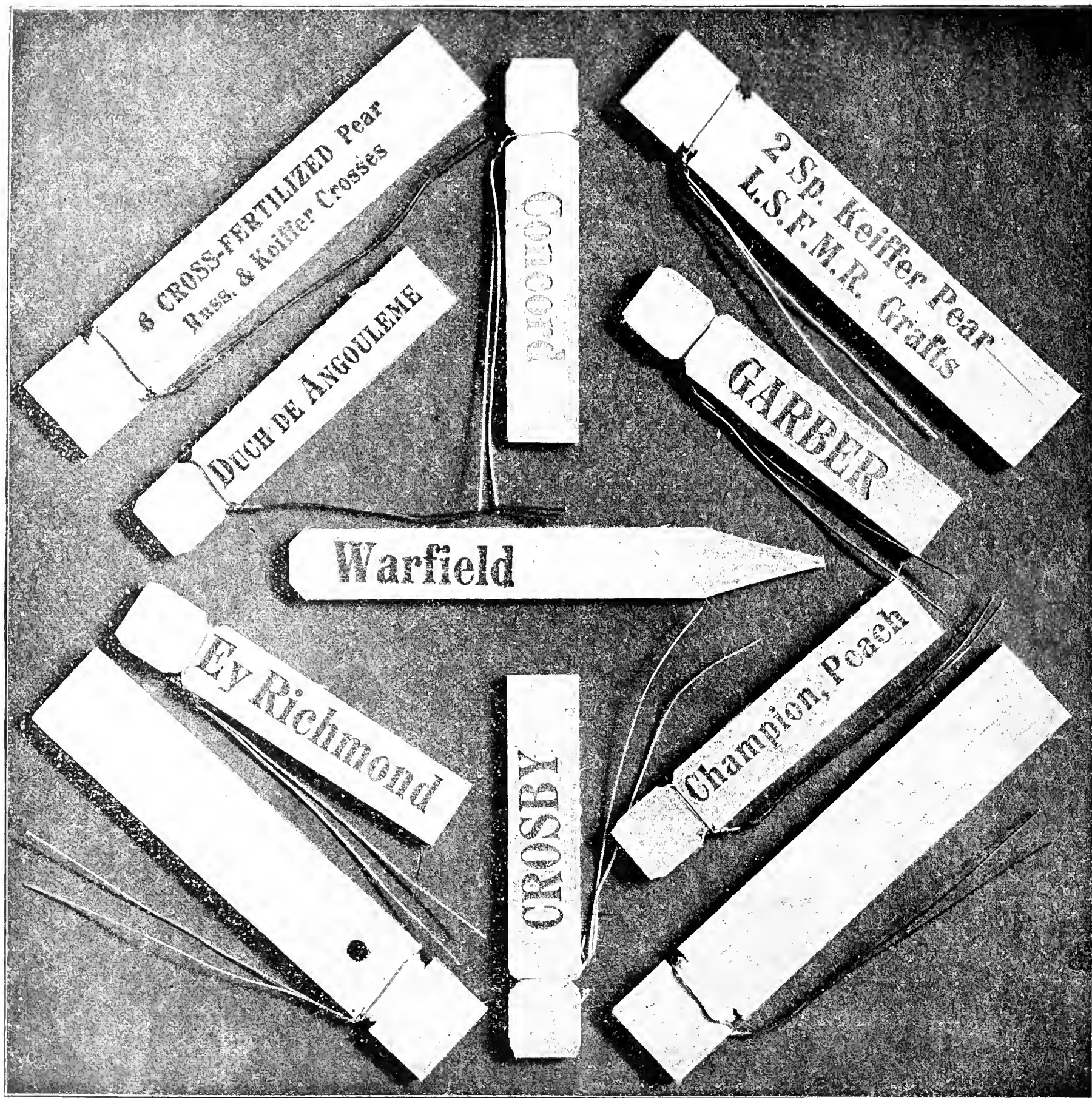
PLAIN
PAINTED

WOOD LABELS

PRINTED
& WIRED

—OF EVERY VARIETY FOR—

NURSERYMEN AND FLORISTS.



The above description gives you but a faint idea of the different kinds and styles of printed labels, and we especially call your attention to the style of type used, being a bold face it will not be easily obliterated in handling or by being exposed to the weather.

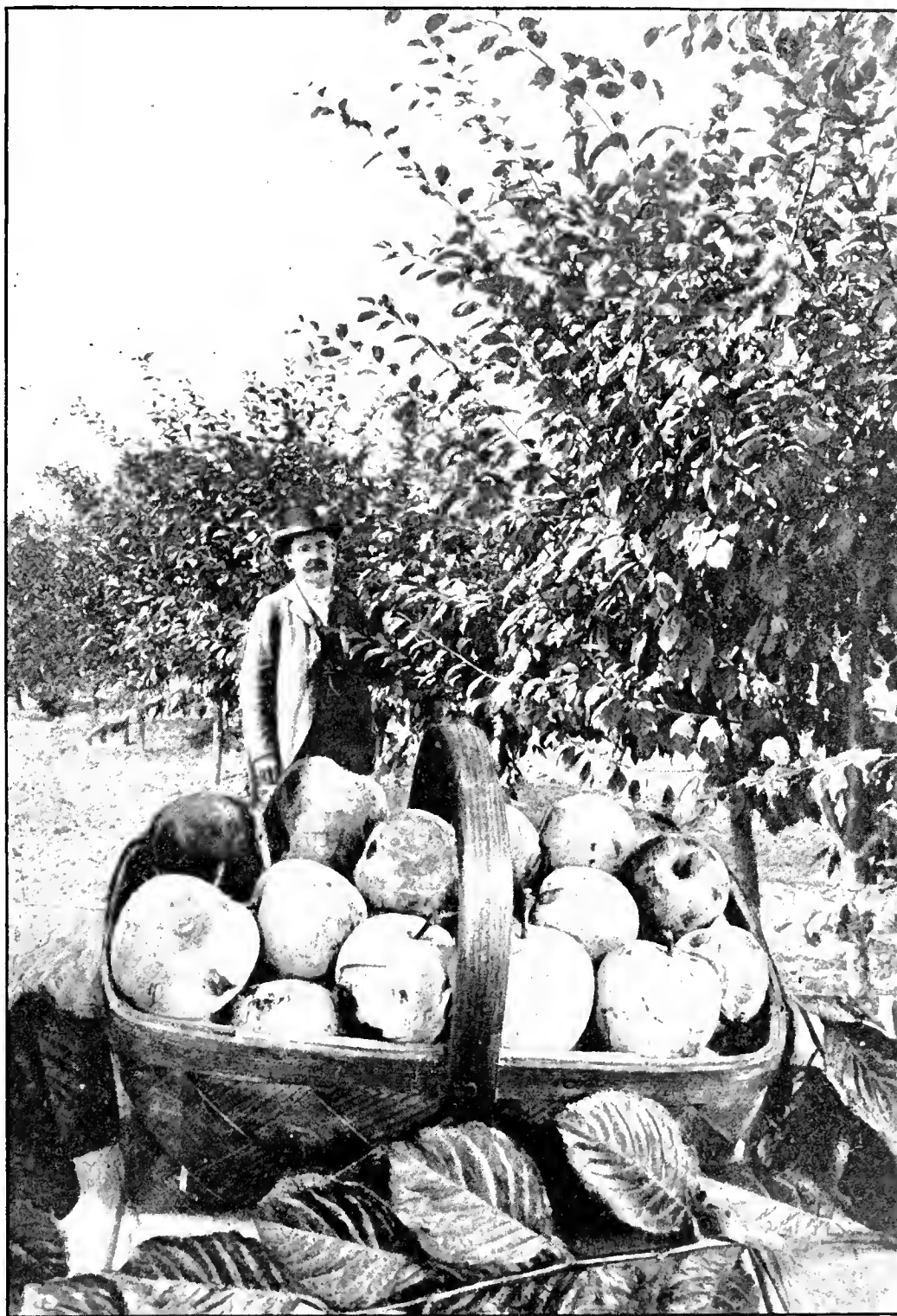
The high standard quality of our labels together with promptness in filling orders, should merit us a trial.

SAMPLES AND PRICES CHEERFULLY GIVEN.

DAYTON FRUIT TREE LABEL CO., DAYTON, OHIO.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

*The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty*



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

*Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL*

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

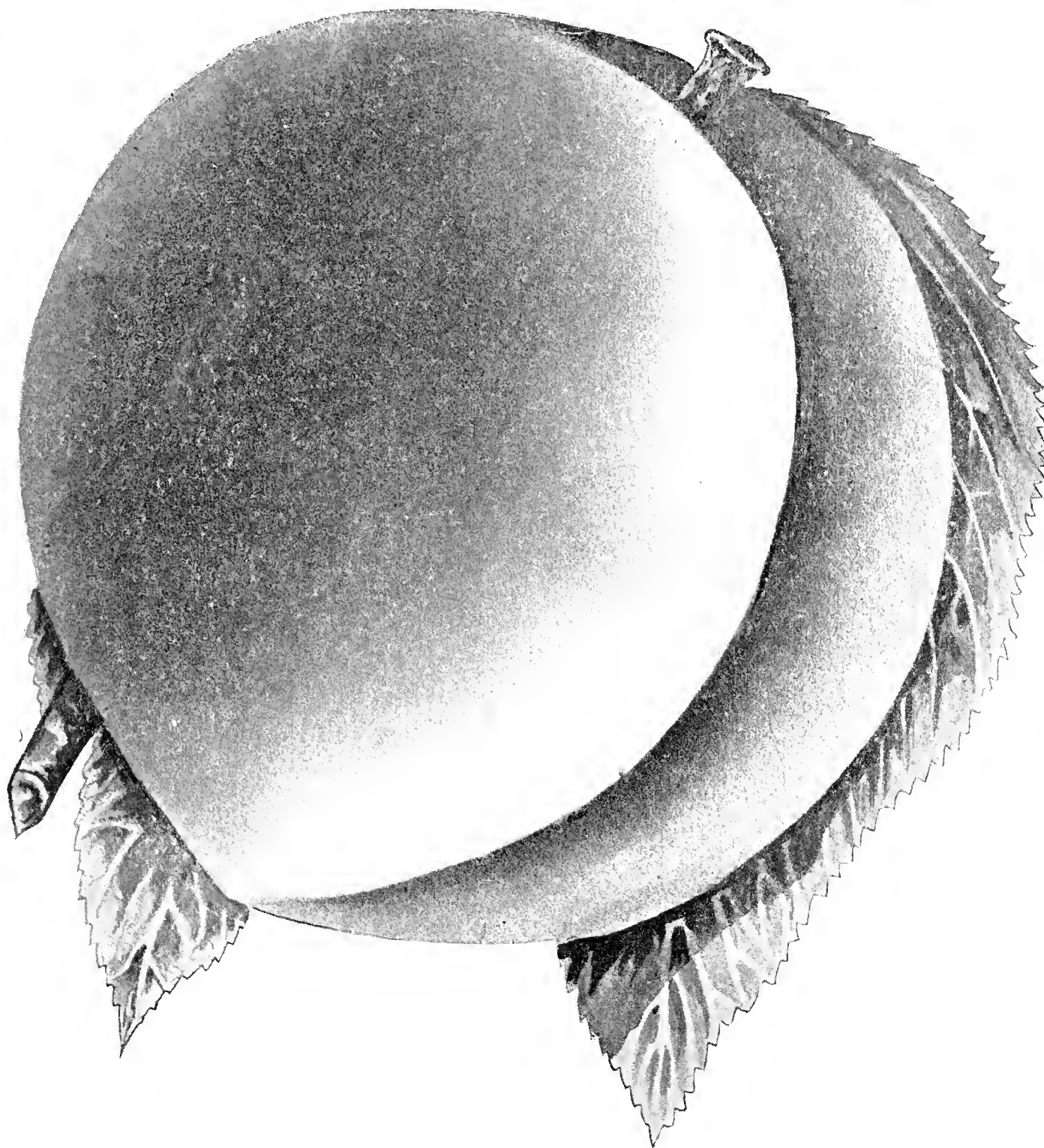
Dated at Santa Rosa, Cal., this 1st day of December, 1902.

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

WE HAVE APPLE SEEDLINGS, 3-16 and all up, both straight and branched roots. Grown in Iowa.
APPLE TREES, 2-year grafts, $\frac{3}{4}$ all up, 5-8 to $\frac{3}{4}$, $\frac{1}{2}$ to 5-8.



PEACH, $\frac{1}{2}$ to 9-16, 9-16 to 5-8, and 5-8 all up.
Smooth stock.

KIEFFER PEAR, 2 year, $\frac{3}{4}$ all up, 5-8 to $\frac{3}{4}$, $\frac{1}{2}$ to 5-8.

Buds ready July 10th—Peach, Apple and Pear.

J. G. HARRISON & SONS

BERLIN, MD.

Come and see our stock.

SEP 2 1903



Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Offer one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds



One million Peach Trees, grown on bank of Lake Erie. No healthier, better trees can be produced.

Fine blocks 2 and 3 year Standard and Dwarf Pear, Apple, Cherries and Plums.

Call especial attention to our **Small Fruit Department**—immense stock all leading varieties, highest grade, packed right. Currants, Gooseberries, Blackberries, Raspberries, Grape Vines, Etc.

Roses — Largest acreage field-grown plants in the world.

Clematis—Large flowered and Paniculata, Ampelopsis Veitchii in large supply with all other leading varieties vines and shrubs. Ornamental Hedge Plants, California Privet, Japan Quince, Berberry Thunbergii, Purple and Green Leaf, Tartarian Honeysuckle, etc.

Direct importations from leading Holland, Belgium and French growers of Chinese Azaleas, Palms, Bulbs, etc.



Let us estimate on your list of wants. Special rates on car lots for fall shipment or stored for spring delivery. Personal inspection cordially invited : : : : : : : : : : :

CATALOGUES AND PRICE-LISTS FREE

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs

Roses

Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.

MOUNT HOPE NURSERIES,
Rochester, N. Y.

Established 1840. Mention this paper.

AN ATTRACTIVE SPECIALTY FOR NURSEYMEN
AND DEALERS IS OFFERED IN OUR

NEW PEDIGREED CLIMBING ROSE

DOROTHY PERKINS

A SEEDLING ROSE OF OUR OWN ORIGINATING
AWARDED A SILVER MEDAL AT THE PAN-AMERICAN.
SEND FOR DESCRIPTIVE CIRCULAR.

Handsome Four Page Circulars will be furnished with customer's name, address, etc., imprinted at \$2.00 per 100, their actual cost.

Electrotypes of any of the cuts used in this circular will be furnished for catalogue use.

Handsome Lithographed Plates for Salesmen's Use will be supplied to concerns who employ agents. Samples mailed on application. We do not offer these plates for indiscriminate distribution but only for the use in salesmen's outfits. When furnished in considerable numbers, a memorandum charge of 1½ cents each will be made for them but such charge will be credited back upon orders for rose bushes of this variety.

FOR 1903-1904, STRONG, FIELD-GROWN
PLANTS, TWO YEARS OLD.

JACKSON & PERKINS CO.

Wholesale Nurserymen,
NEWARK, New York.

AUG. RHOTERT

(ESTABLISHED 1893.)

26 BARCLAY STREET. **NEW YORK**
P. O. Box 1250,
TELEPHONE: 2855 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES. (Established 1795.) **Angers, (France)**
French Fruit and Ornamental Stocks, Specimen Evergreens and Ornamental Trees, Shrubs, Roses, Magnolias, etc., of best Quality, Packing, Grading. Prompt deliveries.

M. KOSTER & SONS. - - - **Boskoop (Holland)**
Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and Rhododendrons, Magnolias, Hydrangeas, fine Specimen Evergreens and Fancy Ornamental Trees. Careful Packing, complete and prompt deliveries.
Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) **Annan (Scotland)**
English Manettis, Norway Maples and Spruce, Birch, Beech Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Quality, Grading and Packing.

TREE SEEDS. Apple and Pear Pips, Myrobalan, Mahaleb and Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!
Very Best Selected Fibre.
From Stock or for Import.

WHOLESALE ONLY. Catalogues and special quotations on application.

When writing to Advertisers mention The National Nurseryman.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Apple Seedlings, and
Mahaleb, Pear Seedlings, Forest Tree
Seedlings, Apple
Scions*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

When writing to Advertisers mention The National Nurseryman.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of
**Fruit and
Ornamental**
stock for fall
trade.

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubbery
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

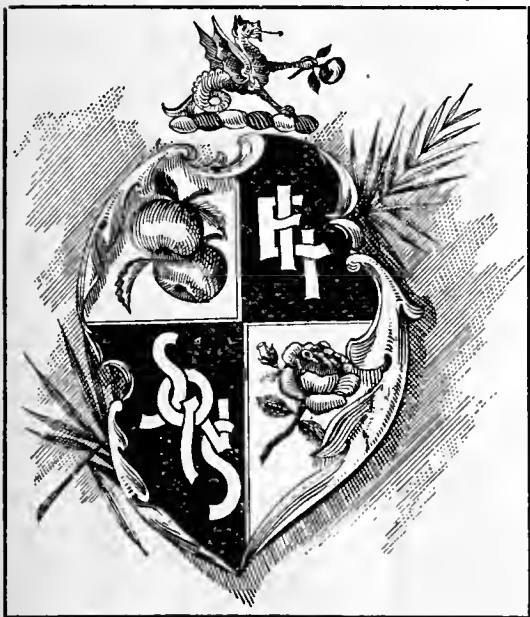
THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

Office, Cutler Building

Nurseries at Brighton

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

**Offer for
Fall
Shipment**

**Apple, Pear, Plum
and Peach**

BY THE CARLOAD.

We will equalize freights with the principal Eastern shipping points, and will guarantee to interest you with our prices. Write us.

HILL'S EVERGREEN NURSERIES

Intend to keep at the head for hardy, nursery grown trees for the nursery trade. A general assortment of seedling varieties, all sizes. A large supply of Douglas, Hemlock, and White Spruces. A grand lot of the famous Rocky Mountain Blue Spruce and Concolors. White, Scotch, Austrian and Dwarf Mountain Pines. Arborvites, etc. Over two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

**APPLE
TREES**

2 and 3 years old, smooth, well-grown, fine stock
Complete list of varieties. Grades mostly $\frac{1}{4}$ and up,
and $\frac{3}{8}$ to $\frac{3}{4}$.

Will make special low low prices in car lots or less for
fall delivery. Correspondence invited.

South St. Louis Nurseries,

5,600 GRAVOIS AVE., ST. LOUIS, MO.

B. Muellerklein's Nurseries

KARLSTADT, Bavaria, Germany

THE LARGEST CULTURES IN

Currants and Gooseberries

Standards

Straight Stems, (3 4 ft. high), Strong Heads.
Best varieties.

Write and get my prices before ordering elsewhere.

Cash with order, or best references.

When writing to Advertisers mention The National Nurseryman.

W. T. HOOD & CO.

Old Dominion Nurseries

RICHMOND, VA.

OFFERS FOR FALL 1903 AND SPRING 1904
California Privet, fine stock 1 and 2 yr. old;
Japan Plums; Apricots on Apricot; Sugar
Maples and American Elms; Small NATURAL
PEACH PRS, Crop 1903; and General line of
Nursery Stock.

PRICES ON APPLICATION.

We will be short on some varieties of Apples, Std. Pears and small
sized Peach for Fall delivery, and would be pleased to receive quota-
tions on same.

A general line of Nursery Stock consisting of

APPLE PEACH SHADE

TREES

American and Japanese Plums
Forest Seedlings and Hedge Plants

Correspondence Solicited.

YOUNGERS & CO., Geneva, Neb.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

TO ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.
PULLMAN SLEEPING CARS.
WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,

ST. LOUIS, MO.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention the National Nurseryman

250,000 PALMS

KENTIAS, PHOENIX, LATANIAS, PANDANUS and
OTHER GOOD SORTS.

ORANGES, KUM KWATS, LEMONS, and LIMES

Fine shapely plants. Grafted on Trifoliata stock.

CHERRIES, 5-6 ft. and 4 5 ft

PLUMS—Abundance, RED NAGATE and other stand-
ard sorts.

FIGS—1 and 2 years. PEACHES—All the leading sorts

WALNUTS—English and Japan.

MULBERRIES, POMEGRANATES, LOQUATS AND
OLIVES SCUPPERNONGS and other GRAPES

HEDGE PLANTS—Thirty acres planted in AMOOR
RIVER PRIVET. The best evergreen hedge plant.

500,000 CITRUS TRIFOLIATA. (Hardy Lemon.)

BIOTA AUREA NANA in immense quantities.

CEDRUS DEODARA, RETINOSPORAS, JUNIPERUS,
LIBOCEDRUS DECURRENS, and other CONIFERS.

We have the largest stock of ornamentals ever grown in the
south. Can supply same in carload lots. No Scale. No Disease.

WRITE FOR PRICES.

P. J. Berckmans Co.

(INCORPORATED)

FRUITLAND NURSERIES,

Established 1856.

Over 400 Acres in Nursery.

AUGUSTA, Ga.

60,000 Feet of Glass.

THE

Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense; Named
Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.

Fall trade list on application.

W. & T. Smith Co., GENEVA, NEW YORK.

When writing to advertisers mention The National Nurseryman.

Fall Bulbs and Plants

WE ARE HEADQUARTERS FOR
Tulips, Hyacinths, Crocus
and all varieties of Fall Bulbs and
Plants, both hardy and tender
50,000
Shasta Daisy Plants, strong field grown

We make a specialty of filling and packing
Nurserymen's orders complete, ready for delivery.

James Vick's Sons
ROCHESTER, N. Y.

APPLES 100,000 2 and 3-year-old, in large
assortment, as fine as grows.

PEACH 185,000. 50 leading sorts from South-
ern Natural Pits grown on new land.

ASPARAGUS 1,250,000 Fine, Strong 1 and
ROOTS 2-year plants. Palmetto, Barr's,
Donald's and Giant Argenteuill.

These are our specialties for the trade and we invite correspond-
ence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia
Dewberries, and Large Norway Maples.

WEST JERSEY NURSERY CO.

STANTON B. COLE, - BRIDGETON, N. J.

THE NEW BLACKBERRY
WARD

*By Far the Best Market Blackberry Now
Before the Public.*

For description and price address either

CHAS. BLACK, D. BAIRD & SON,
OR
Hightstown, N. J. Baird, N. J.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries,

W. C. REED, Proprietor

VINCENNES, INDIANA

We offer for Fall 1903 the following in Car
Load Lots or Less

Apple 2 and 3 Year

Peach, One Year

Standard and Dwarf Pear

Plum, One and Two Year

Cherry, One Year

Carolina Poplar

Cut Leaved and Silver Maples

Catalpa Speciosa Seedlings

Also good assortment of Small Fruits,
Ornamentals, etc.

Call and see US and look over our
plant, or send list of wants for Quota-
tions.

Would be pleased to meet you at Detroit.

1851 **Knox Nurseries** 1903

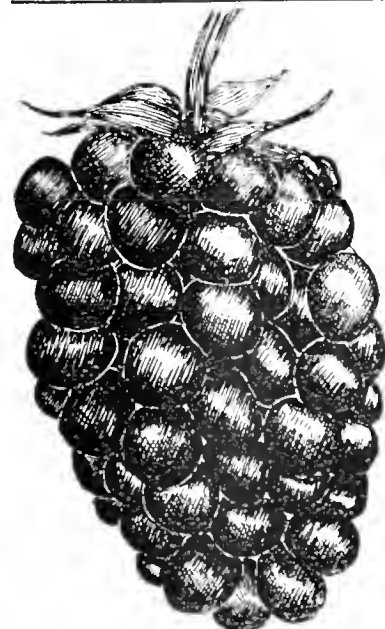
We offer for Fall 1903 a complete line of

NURSERY STOCK

And solicit your orders. We have a fine block of apple,
2-yrs., growing at Topeka, Kansas and would like to sell
the whole block. The block consists of the leading sorts
and we would be pleased to give particulars to any pro-
spective buyer. We also make a specialty of Cherry, one
year. We still have some left of the smaller grades. Also
have a nice lot of peach and 3-yr. Apple. Norway Spruce
and Roses to offer, and a large number of Catalpa Speci-
osa Seedlings.

VINCENNES, INDIANA.

H. M. SIMPSON & SONS.



STRAWBERRY and RASPBERRY plants
of all the new and old sorts in large
or small quantity.

PREMO DEWBERRY. No one can afford
to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG
BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We
have the finest lot of June budded
Peach we ever saw grow, also a
general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

ELMIRE SEBIRE, Fils Aine, Ussy, Calvados, France

Grower and shipper of Nursery Stock; *Ornamentals*, trees and shrubs, *Evergreens*, *Conifers*, *Forest Trees*, for late fall delivery; also a limited stock left of *Pear*, *Quince* and *Apple Fruit Stock Seedlings*.

Send for estimates to our sole American agents,

AUGUST ROLKER & SONS,

P. O. Box 752, 31 Barclay St., New York

Importers of *Japan* and *Dutch Nursery Stocks*, *Fruit* and *Tree Seeds*; *Raffia Fibre* in prime nurserymen's quality.

75,000

Pot Grown Strawberry Plants

If planted now will produce a full crop of **Large Luscious Strawberries** in 1904. We have these in stock in fifteen of the best varieties. Submit your list of wants for special low quotations

T. J. DWYER & SON

Orange County Nurseries,

Box 15.

CORNWALL, N. Y.

I HAVE TO OFFER FOR FALL 1903 AND SPRING 1904

A GENERAL LINE OF

Nursery Stock

I MAKE A SPECIALTY OF

CHERRY AND PLUM

Both one and two years. Correspondence Solicited.

JAS. M. KENNEDY.
DANVILLE, N. Y.

The Willadean Nurseries

OFFER FOR FALL 1904

Apples, Pears, Standard and Dwarf Plums, Cherry, Grape Vines, Small Fruit Plants, Rhubarb, Asparagus, Ornamentals, Shrubs, Herbaceous and Hardy Perennials.

Forest Tree Seedlings we have in quantities, over 50 kinds, nursery grown. Tree seeds we have in season in large quantities. Send us your list of wants. We can interest you. Trade list ready September 1st.

THE DONALDSON CO., Warsaw, Ky.
Successors to DONALDSON & GIBSON.

When writing to Advertisers mention The National Nurseryman.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of
Highlands Nursery, N. C.

Beacon Building,
BOSTON, MASS.

CHARLES DETRICHE, Senior,

ANGERS, FRANCE,

Grower and Exporter of Fruit Tree Stocks, Forest Trees and Ornamentals.

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriché would be glad to receive any horticultural catalogues or papers.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of **Campbell's Early**.
Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

200,000

SURPLUS APPLE TREES

Two years old, clean, thrifty, smooth, well grown trees every way. Good assortment Summer, Fall and Winter varieties. Will give bargains to reduce this stock. One hundred thousand Mariana Stocks, grown from nice smooth cuttings, not over grown, just the right size. Lowest price given on application.

MARBLE CITY NURSERY CO.

KNOXVILLE, TENN.

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E. T. DICKINSON, CHATENAY SEINE, FRANCE

GROWER AND EXPORTER OF

**French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc Fruit Tree Stocks.**

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and
grove. For fence posts, telegraph and telephone poles, most
lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

Peach Trees 1 yr. from bud, 300,000 Trees of lead-
ing sorts.

Plum Trees On Marianna stocks, 1 yr. from bud, Jap-
anese and American varieties, all smooth
and well-grown. Peach and Plum buds to offer.

Asparagus Roots 2 yr. old, Palmetto, Con-
overs Colossal and Barr's
Philadelphia Mammoth. For Fall of 1903.

THE DELAWARE NURSERIES,

D. S. COLLINS, Mgr.

Milford, Delaware.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD.

OFFERS

Peach and Apple Trees

California Privet
1-7 2 Year Old Strong.

Grape Vines
1 and 2 Year Old.

Asparagus Roots
2 Year Strong.

Strawberry Plants
From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

THE FRASER NURSERY

JOHN FRASER, PROP

HUNTSVILLE, ALA.

HAVE TO OFFER FOR FALL

MANETTI and MARIANA STOCKS.

CHERRY, one year.

STD. PEAR, one and two years.

Mulberries, H. P. and Climbing Roses, Magnolia, Grandiflora, California
Privet, Hydrangeas, Althea, Chionanthus, Exochordia, Ampelopsis Veitchii,
Carolina Poplar, etc. *Write for Prices.*

Russian Apricot Seedlings

We have a large stock at very favorable prices. Black and Honey Locust
and Russian Mulberry Seedlings. 100,000 2 yr. Apple. *Get our prices.*

J. A. GAGE, Beatrice, Neb.

DREER'S HARDY PERENNIALS

SPECIALTIES

Anemone Japonica

Asters (Michaelmas Daisies)

Campanulas (Bell-Flowers)

Iriskaempfer and Germanica

Paeonies

Phlox Decussata

Pinks choice hardy sorts

Primulas

Rudbeckias

Stokesia Cyanea

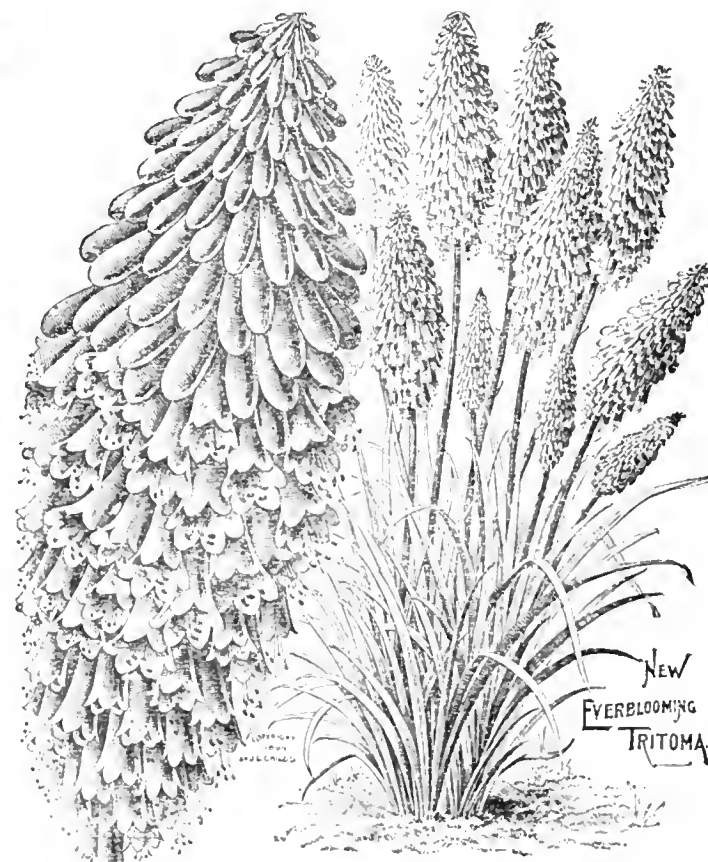
Tritoma Pfitzeri

We are specialists in this class of plants and carry not only the largest
stock but the greatest variety. Our list contains many rare plants not
generally found in American collections.

Send us a list of your requirements in this line, and we shall be pleased
to quote prices which will interest you.

HENRY A. DREER,

PHILADELPHIA, PA.



TRITOMA PFITZERI (Red-hot Poker Plant)

WE CARRY IN STOCK

The largest assortment of **Air Dried Red Gulf Cypress** in the north. It is the superiority of this material for Greenhouse Construction that should interest you. Send in your inquiries to us for Cypress and all other kinds of

Greenhouse Building Material

and get our prices and samples before ordering elsewhere. We believe we can save you money.

Our Greenhouse Heating and Ventilating Catalogue and Greenhouse Construction Catalogue will be mailed to you on receipt of five cents for each.

Lord & Burnham Company

New York Office, St. James Bldg., B'way & 26th St. General Office & Works, Irvington-on-Hudson, N. Y.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,

509 Arch Street, PHILADELPHIA, Pa.

NEW PEACH SEED

For delivery this Fall, well cured Northern seed, crop of 1903. Order at once and make sure. We are also prepared to make a special price on Order Blanks, size 3½x7 inches, put up in pads of 100 each, any printing desired, good quality of paper, wire stitched and perforated at top; strawboard back and carbon paper attached. Send for sample.

H. S. DAY, - - - - - FREMONT, OHIO.

GRAPE VINES

AND

Gurran Plants

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

WE offer 1,000,000 June Bud Peach, large stock 2-yr Apple, 1-yr Pear and Cherry. Southern Mountain Natural Peach Seed and Western grown Apple Seedlings. Before placing your order write us; we can save you money.

CHATTANOOGA NURSERIES, CHATTANOOGA, TENN.

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.

HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

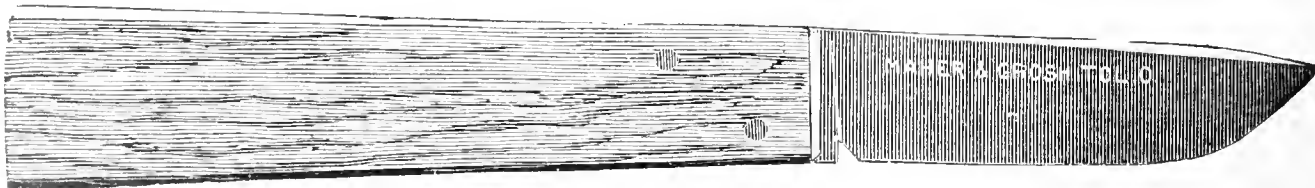
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2.25.
BUDDING KNIFE with folding blade, No. 93. By mail 35 cents; 6 for \$1.75.
GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.
SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

When writing to Advertisers mention The National Nurseryman.

Apple Trees
Peach Trees
Maples
Carolina Poplars
Hydrangeas
Japan Snowballs

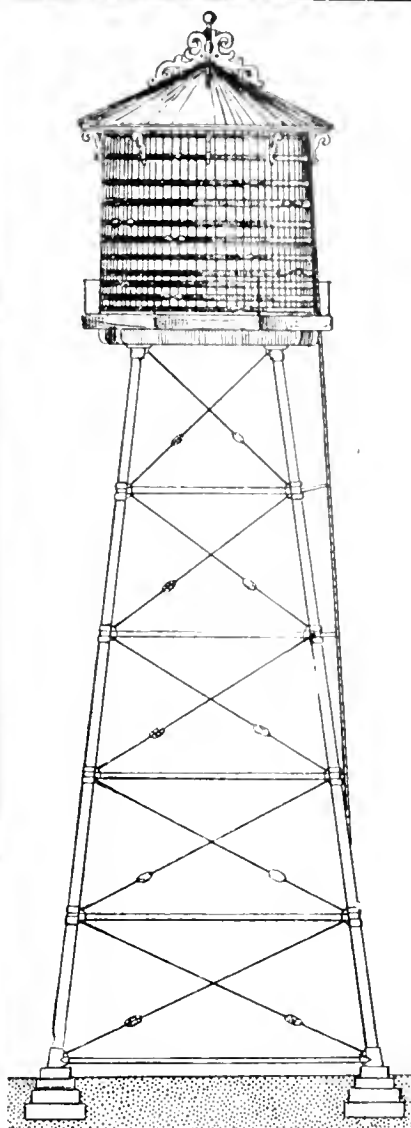
Also a good stock of other Fruit
Trees and Ornamental Trees.



SEND LIST OF WANTS TO

George Achelis

West Chester, Chester Co., Pa



"Absolutely safe and reliable. Ask your friends"

Did You Ever

lose your choicest plants
because your water supply
failed when most needed?
Do not let it happen again.
Have a

**Caldwell
Tank and
Tower**

There is no surer way to
have an abundant supply of
water at high pressure ever
at hand. The tanks do not
leak or warp, and the towers
will safely carry the tanks.
No dread of drought. And
the cost is not excessive as
our catalogue will prove.

W. E. CALDWELL CO.,
LOUISVILLE, KY.

WE OFFER FOR FALL DELIVERY

The Following Well Grown and Graded Stock

200,000 Apple Trees
600,000 Peach Trees
1,000,000 June Budded Peach Trees
100,000 Pecan Trees, 6 in. to 2 ft.
40,000 Cherry Trees
35,000 Pear Trees
5,000 Evergreens
25,000 Roses, 2 years old

Let Us Figure with You on Your Fall Wants.

SOUTHERN NURSERY COMPANY
WINCHESTER, TENN.

When writing to Advertisers mention The National Nurseryman.

WILLIS NURSERIES

OTTAWA, KANSAS.

Offers for the Fall of 1903,
a large general assortment of
CHOICE NURSERY STOCK,
including

100,000 APPLE,
Choice 2 yr. trees.

75,000 PEACH,
20,000 CHERRY,
150,000 GRAPES.

Correspondence Solicited.

Willis Nurseries.

OTTAWA, KANSAS.

When writing to Advertisers mention The National Nurseryman.

THE ENID NURSERIES,

ESTABLISHED 1893

ENID, OKLA. J. A. LOPEMAN, PROP.

Carry a full line of Nursery Stock. WHOLESALE AND RETAIL.

Specialties—Apple, Peach, Plum and Grape. All commercial sorts of apple to offer in car load lots. Correspondence solicited.

WANTED

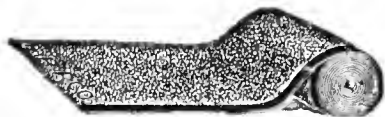
An experienced man, to act
as Assistant Foreman.

C. W. STEWART & CO., NEWARK, N. Y.

Wanted, for Cash,

Houghton Gooseberries, 1 and 2-year plants.

J. S. LINTHICUM, - WELLHAMS A. A. CO., MD.



ARROW BRAND

Asphalt Ready Roofing.

Comes in rolls already supplied with gravel, and can be applied by any handy man. Free samples sent upon application.

ASPHALT READY ROOFING CO.,

Traders' Exchange Bld'g, Water St., near Pine, New York City.

If you are in the market for **PEACH PITS** in car-load lots we can supply same. The pits we offer are of medium size and clean. For further particulars address **Fancher Creek Nurseries, (Inc.), Fresno, Cal.**

For Fall of 1903

Lombardy Poplars, fine heads
1 inch cal. to 3 inches.

Carolina Poplars, low heads, 1 to 1½ inch Cal.

Norway Maples, 1 inch to 3 inch Cal.

Norway Maples, seed beds.

Silver Maples, 5 to 7 feet, low price.

Osage Orange, Low price. Peach trees.

JOSIAH A. ROBERTS, Malvern, Pa.

The Laketon Nurseries

LAKETON, IND.

We have in surplus, 25,000 Apple, ¾ and up.
10,000 " ⅝ and up.

Leading standard sorts. Certificate of inspection furnished with shipment. Other general stock in limited supply. Send list of wants.

G. N. MOYER, Prop.

We offer Special Inducements in

Budded Pecans
Japan Persimmons
Figs
Muscadine Grapes

ORNAMENTAL TREES, SHRUBS AND ROSES

Also a general line of nursery stock for the South and South-West. Peaches, Plums, Pears, Citrus Trees, etc., etc. Send us your list of wants.

We don't quote Trade Prices to Planters.

The Griffing Bros. Co.

Nurserymen
JACKSONVILLE, FLA.

STARK BRO'S NURSERIES & ORCHARDS CO

Growers of General Nursery Stock

CARLOAD LOTS of Apple, Peach, Plum, Cherry,
Standard and Dwarf Pear, Grape, etc.

Particular attention called to large stocks of
APPLE SEEDLINGS
GRAPE VINES of the leading varieties
CURRANTS
GOOSEBERRIES
BUDED LILACS, finest new sorts
BECHTEL DOUBLE-FLOWERED Crab, etc.



GENERAL OFFICES, Nurseries, Packing Houses,
etc., LOUISIANA, MO. BRANCHES: Starkdale,
Mo., Huntsville, Ala., Fayetteville, Ark., Dans-
ville, N. Y., Atlantic, Iowa. Grape Nurseries,
Portland, Chautauqua Co., N. Y.

World's Fair, St. Louis, 1904.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

===== HAVE TO OFFER =====

APPLE, CHERRY, PEACH
KEIFFER PEAR.
(2 yr.)

SHADE TREES

JAPAN PEAR SEEDLING OSAGE CATALPA

GRAPE VINES BECHTEL'S FLOWERING CRAB

PEACH SEED

Write me for sample and prices.
Name quantity wanted.

F. T. RAMSEY, - - **Austin, Texas.**

I Offer for Fall 1903 and Spring 1904

A large stock of **BARTLETT STANDARD PEARS**,
2-year. Write and get my prices.

B. F. KEAN, - **Stanley, Ontario County, N. Y.**

SURPLUS OF ORANGE QUINCE,

One and two years, grown from Layers from our orchard.

BARTLETT STANDARD PEARS,

Two years. Low prices on application.

JOHN TWOMEY, GENEVA, N. Y.

VICTOR DÉTRICHÉ ANGERS, FRANCE.

Extensive Nurseries of Fruit and Ornamental Stocks,
Evergreens, Shrubs, Roses, etc.

All Stocks are in prime condition. Advance price list for Fruit
Trees and Rose Stocks on application. Complete catalogues in Sep-
tember. Address all orders and communications to my sole representa-
tive for the United States and Canada,

19 Barclay St., New York, CHAS. F. MEYER.

ELBERTA

500,000 Peach, 250,000 Elberta
250,000 in Assortment, Viz.:

Champion, Crosby, Capt. Ede, Crawford, Heath
Cling, Mountain Rose, O. M. Free, Piquetts Late,
Salway and others. • Good roots, good tops,
smooth, entirely healthy and true to label.

We have more trees growing than we have
cellar room for the coming Winter, hence we
will make close prices for car lot orders for Fall
shipment. Visit us, inquire about us.

Write for Prices.

Located three hours west from St. Louis on main lines of
Wabash and Chicago and Alton Railroads.

Address Nursery Dept.

Ortiz Fruit Farm
MEXICO, MO.

When writing to Advertisers mention The National Nurseryman.

California Seedling

— AND —

Grafted Peach Pits

FOR SALE IN CAR LOAL LOTS.

GEO. F. DITZLER,

Biggs, Butte County, Cal.

**THE
AUTOMATIC
COPYING
BOOK**

COPIES WHILE YOU WRITE

Simplest and best. Always ready; use any pen and
paper. No press and no trouble. Prevents costly
mistakes. Samples of work and endorsements free.
Duplicating Books of all Kinds Made to Order.

PERSHING & CO.,

142 Michigan Street, SOUTH BEND, IND.

4,000,000 PEACH TREES

*Largest stock of Peach grown by
any one man in the United States.
Write me before you place your
order for Fall of 1903 and Spring
of 1904.*

TENNESSEE WHOLESALE NURSERIES,

J. C. HALE, Proprietor.

Winchester, Tenn.

Nuts-Peaches-Nuts

20,000 Japan Walnuts, 4 inches to 12 feet.

20,000 Black Walnuts, 4 inches to 8 feet.

5,000 English Walnuts, 4 inches to 5 feet.

500 Grafted Japan Walnuts, 2 to 4 feet.

5,000 Butternuts, 4 to 15 inches.

50,000 Pecan Seedlings, 4 inches to 6 feet.

5,000 Pecan Grafts, 6 inches to 4 feet.

5,000 Pecan Seedlings (cut backs), 2 to 4 feet.

10,000 Spanish Chestnuts, 6 inches to 6 feet.

2,000 American Chestnuts, 6 inches to 6 feet.

6,000 Japan Chestnuts, 6 inches to 3 feet.

2,000 Grafted Chestnuts, 6 inches to 5 feet.

3,000 Almonds, 2 to 6 feet.

2,000 English Filberts, 2 to 5 feet.

150,000 One Year Peach.

100,000 June Bud Peaches.

10,000 June Bud Plums.

Also Apples, Cherries, Plums, Hardy Flowering Shrubs, Etc.
Write for prices to

American Plant and Seed Co.

NASHVILLE, TENN.

When writing to Advertisers mention The National Nurseryman

XENIA STAR NURSERIES

McNARY & GAINES, Proprietors

XENIA, OHIO.

A General Line of Superior Stock, Grown Especially for the Wholesale Trade

APPLE As heretofore, our Apples are equal to the very best. This refers to the entire tree, top, body and root. Sixty varieties.

PEAR Standard, Dwarf and high top. Good general assortment, including choice Kieffer.

CHERRY The Cherries grown by us are absolutely unexcelled, and we repeat our last year's claim:—"We have the best cherry in the United States." You are invited to verify this by a personal inspection of our blocks.

PLUM General Assortment on plum and on peach roots, including the leading varieties of European, Japan, Native and New Hybrids.

PEACH Very promising blocks. Full list of leading and best kinds. Strong on Elberta and Champion.

OTHER STOCK We will have our usual stock of Grape Vines, Small Fruits, Ornamental Trees, Shrubs, Vines, Etc.

OUR LEADING SPECIALTY

The Opalescent Apple

Is the best seller now offered by retail nurserymen. It is offered on its merits, and is a variety of undoubted value that will do your customers good. Supplied on special contract only. Plates free.

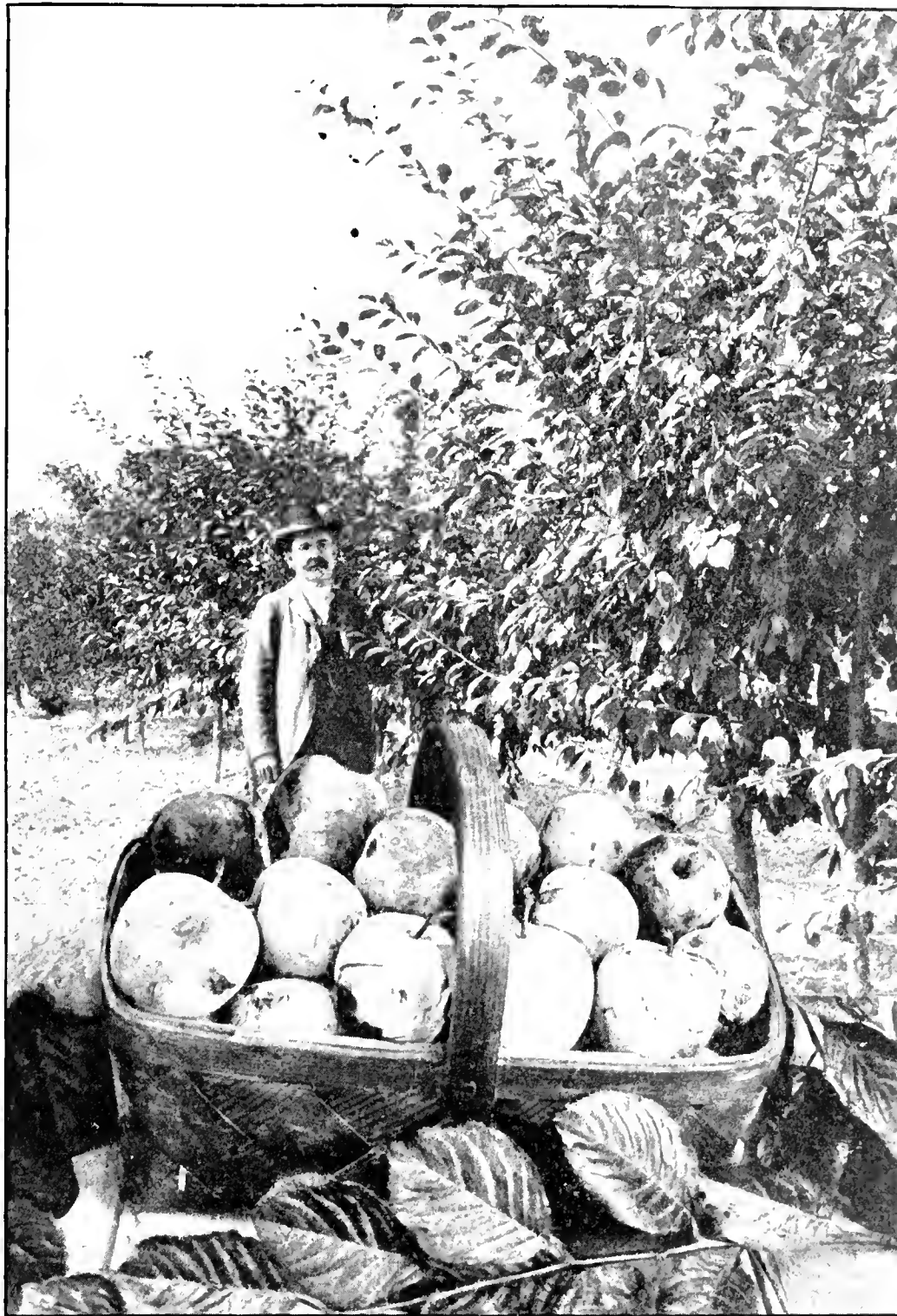
Prices We are ready to submit price. Favor us with an estimate of your probable wants and we will submit our best early quotations, which will interest you and may save you money. Some lines of stock promise to advance sharply later in the season.

McNARY & GAINES,

Xenia, Ohio.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

*The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty*



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

*Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL*

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

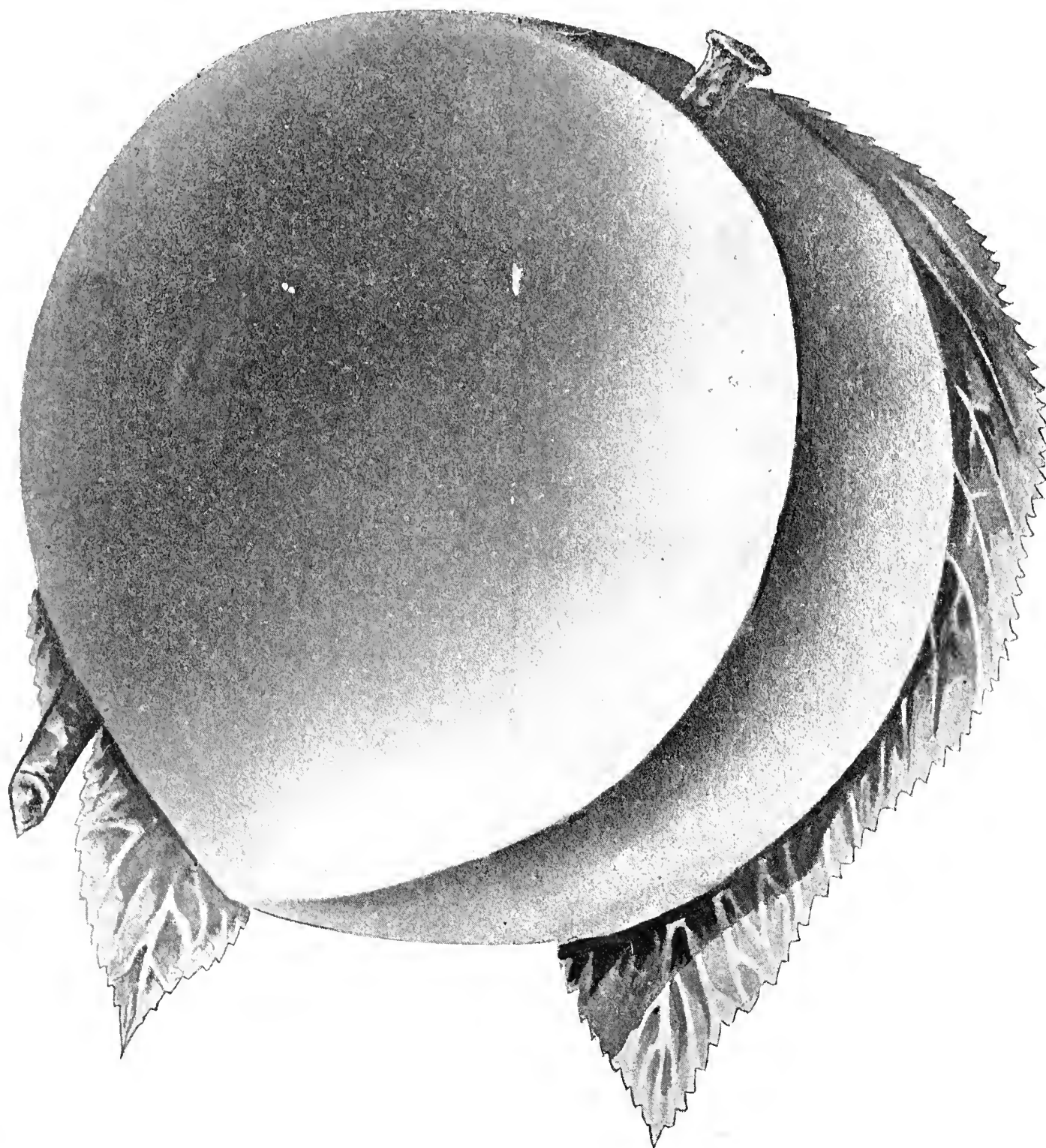
Dated at Santa Rosa, Cal., this 1st day of December, 1902

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

✓
WE HAVE APPLE SEEDLINGS, 3-16 and
all up, both straight and branched roots. Grown in Iowa.
APPLE TREES, 2-year grafts, $\frac{3}{4}$ all up, 5-8 to $\frac{3}{4}$, $\frac{1}{2}$ to 5-8.



PEACH, $\frac{1}{2}$ to 9-16, 9-16 to 5-8, and 5-8 all up.
Smooth stock.

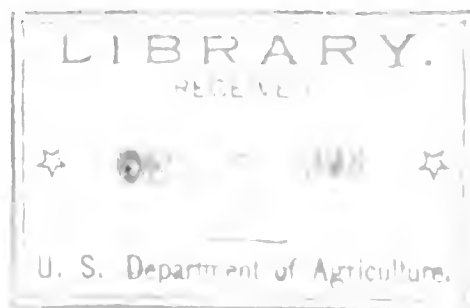
KIEFFER PEAR, 2 year, $\frac{3}{4}$ all up, 5-8 to $\frac{3}{4}$, $\frac{1}{2}$ to 5-8.

Buds ready July 10th—Peach, Apple and Pear.

J. G. HARRISON & SONS

Come and see our stock.

BERLIN, MD.



October, 1903

Continental Nurseries



*The largest and most complete
Nursery plant in the United States.*

*We have a full line of Nursery
Stock the coming year for the whole-
sale trade.*

*We should be pleased to receive
your list for estimate.*



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Offer one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds



One million Peach Trees, grown on bank of Lake Erie. No healthier, better trees can be produced.

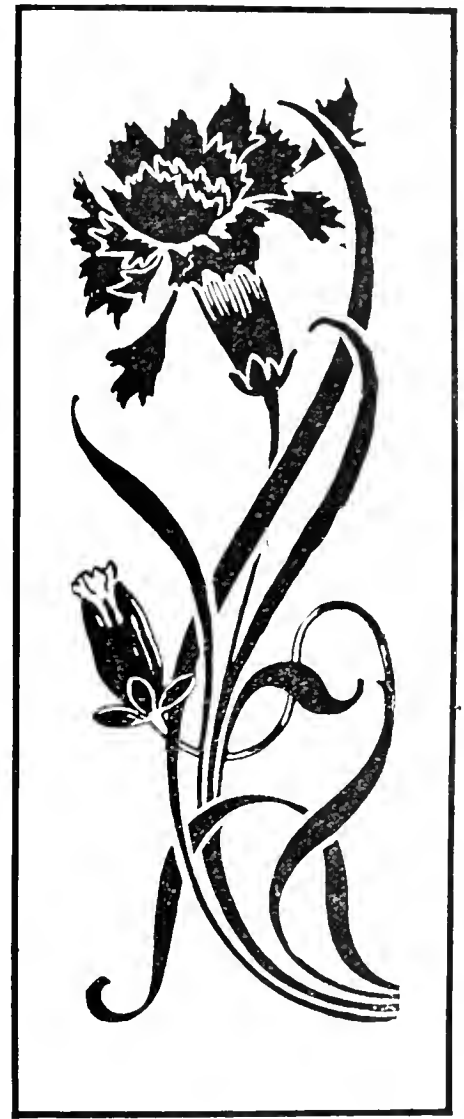
Fine blocks 2 and 3 year Standard and Dwarf Pear, Apple, Cherries and Plums.

Call especial attention to our **Small Fruit Department**—immense stock all leading varieties, highest grade, packed right. Currants, Gooseberries, Blackberries, Raspberries, Grape Vines, Etc.

Roses — Largest acreage field-grown plants in the world.

Clematis—Large flowered and Paniculata, Ampelopsis Veitchii in large supply with all other leading varieties vines and shrubs. Ornamental Hedge Plants, California Privet, Japan Quince, Berberry Thunbergii, Purple and Green Leaf, Tartarian Honeysuckle, etc.

Direct importations from leading Holland, Belgium and French growers of Chinese Azaleas, Palms, Bulbs, etc.



Let us estimate on your list of wants. Special rates on car lots for fall shipment or stored for spring delivery. Personal inspection cordially invited : : : : : : : : : :

CATALOGUES AND PRICE-LISTS FREE

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs

Roses

Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.
MOUNT HOPE NURSERIES,
Rochester, N. Y.
Established 1840. Mention this paper.

LIST OF SPECIAL SURPLUS

The following list consists of some few items of which we have rather large supplies that we desire to reduce quickly. The stock is of our best grade and quality, but prices for considerable quantities, will be made unusually low until surplus is reduced:

Roses, No. 1 grade, on own roots, for Spring delivery only. Caprice, Jules Margottin, La Reine, La France, Madame Plantier.

Vines, strong, field-grown stock, Actinidia, Arguta, Akebia Quinata, Clematis, Jackmannii, Honeysuckle, Japan Golden-leaved.

Herbaceous Plants, large roots; Achillea "The Pearl," Helianthus Maximiliana, Helioopsis Pitcheriana, Iris, German, Iris, Kaempferi, Rudbeckia, Golden Glow.

Ornamental Trees and Shrubs, Alder, European,

8-10 ft., Ash, European, 10 ft., Ash, European, 8-10 ft., Catalpa Speciosa, 8-10 ft., Horse Chestnut, Red Fl'g 4-5 ft., Elder, Golden, 3-4 ft., Elm American; 10-12 ft., Elm American, 8-10 ft., Elm English, 10-12 ft., Filbert, (Hazel), 5-6 ft., Maple, Ash-leaved, 8-10 ft., Maple, English, 6-8 ft., Oak, English, 6-7 ft., Oak, Pin, 5-6 ft., Oak, Scarlet, 5-6 ft., Oak, Turkey, 5-6 ft., Poplar, Carolina, 10-12 ft.; Poplar, Carolina, 8-10 ft., Poplar, Lombardy, 8-10 ft., Quince, Japan, 2-3 ft., Strawberry Tree, 5-6 ft., Tulip Tree, 10-12 ft.

Complete price-list mailed upon application. Good assortment of old and new varieties.

JACKSON & PERKINS CO.

NEWARK, New York.

AUG. RHOTERT

(ESTABLISHED 1893.)

26 BARCLAY STREET.
P. O. Box 1250,

NEW YORK

TELEPHONE: 2855 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES. (Established 1793.) Angers, (France)

French Fruit and Ornamental Stocks, Specimen Evergreens and Ornamental Trees, Shrubs, Roses, Magnolias, etc., of best Quality, Packing, Grading. Prompt deliveries.

M. KOSTER & SONS. - - - Boskoop (Holland)

Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and Rhododendrons, Magnolias, Hydrangeas, fine Specimen Evergreens and Fancy Ornamental Trees. Careful Packing, complete and prompt deliveries.

Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) Annan (Scotland)

English Manettis, Norway Maples and Spruce, Birch, Beech, Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Quality, Grading and Packing.

TREE SEEDS. Apple and Pear Pips, Myrobalan, Mahaleb and Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!

Very Best Selected Fibre.
From Stock or for Import.

WHOLESALE ONLY. Catalogues and special quotations on application.

When writing to Advertisers mention The National Nurseryman.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Apple Seedlings, and
Mahaleb, Pear Seed-
lings, Forest Tree
Seedlings. Apple
Scions*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

When writing to Advertisers mention The National Nurseryman.

Apple Trees
Peach Trees
Maples
Carolina Poplars
Hydrangeas
Japan Snowballs

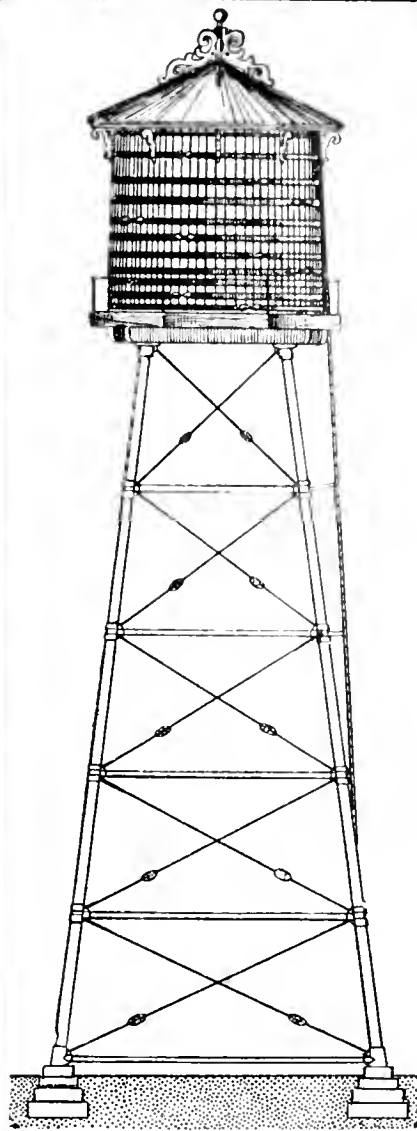
Also a good stock of other Fruit
Trees and Ornamental Trees.



SEND LIST OF WANTS TO

George Achelis

West Chester, Chester Co., Pa.



"Absolutely safe and reliable. Ask your friends"

Were You Deprived

of your water supply at any time by the leakage or collapse of your water tank? Take precautions now and have a

**CALDWELL
OUTFIT**

The tanks are built of best Red Gulf Cypress, securely hooped, and the towers are constructed of wood and steel combined. A small gas engine may be used to fill tank.

*Let us send you our
Catalogue and Price List.*

W. E. CALDWELL CO.,
LOUISVILLE, KY.

WE OFFER

FOR FALL AND SPRING DELIVERY THE FOLLOWING WELL GROWN AND GRADED STOCK:

100,000 Apple, $\frac{3}{4}$ and up
200,000 Peach Trees, all grades
50,000 Pecan Trees
10,000 Cherry Trees
2,500 Evergreens
5,000 No. 1 Roses

*Send us a list of your wants.
We will do you good.*

Southern Nursery Company
WINCHESTER, TENN.

WILLIS NURSERIES

OTTAWA, KANSAS.

Offers for the Fall of 1903,
a large general assortment of
CHOICE NURSERY STOCK,
including

100,000 APPLE,
Choice 2 yr. trees.

75,000 PEACH,

20,000 CHERRY,

150,000 GRAPES.

Correspondence Solicited.

Willis Nurseries,

OTTAWA, KANSAS.

BRIDGEPORT NURSERIES

Grow one of the most complete lines of Hardy Nursery Stock in the country, and have for

FALL 1903 AND SPRING 1904

In quantities to suit customers — CAR-LOAD LOTS, or LESS, at prices that will interest you.

Apple
Plum
Peach
Grapes
Gooseberries
Raspberries

C. Poplar
Norway Maple
Catalpa
Chestnuts
Shrubs
Roses

Pear
Cherry
Quince
Currants
Strawberries
Blackberries

Silver Maple
Hard Maple
Box Elder
Evergreens
Vines
Etc.

APPLE SEEDLINGS

Mariana Plum Stocks.

Imported Seedlings.

APPLE AND PEAR GRAFTS

POMONA—Currant the most profitable.

SPADES—The BEST and CHEAPEST.

EXCELSIOR (baled). The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE
Cheaper, and far superior to Moss.

Our STORAGE and SHIPPING facilities are unsurpassed.

Trade-list ready about September 1st.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

Trade Winners, We Have Them

Apple, $\frac{3}{4}$ in. and up, 5 to 7 feet. Apple, $\frac{3}{4}$ in. to $\frac{1}{2}$ in., 5 to 6 feet.
" $\frac{1}{2}$ in. to $\frac{3}{4}$ in., 4 to 5 feet. " 7-16 to $\frac{1}{2}$ in., 3 to 4 feet.

Heavy on Ben Davis, York Imperial, Baldwin, Gano, Wine
Sap, M. B. Twig, and other leading sorts.

PEARS—A fine lot of Garber, Keiffer and Clapps' Favorite in the two upper grades.

PLUM ON PEACH, one year, $\frac{3}{8}$, $\frac{1}{2}$ to $\frac{5}{8}$, 7-16 to $\frac{1}{2}$. Varieties, Abundance, Burbank, Wickson, German Prune, Duans Purple,
Bradshaw, and a few others.

Car load lots a specialty, let us figure on your want list for this fall and next spring. Correspondence solicited.

The Village Nurseries

HARNEDSVILLE, PENNA.

Fruit Stocks and Seeds

Not nearly enough to supply the demand. Write immediately if you contemplate purchasing. Mahaleb, cherry and apple seed is already exhausted. Here is what we offer:—

STOCKS

APPLE, French	PLUM, Myrobolan
" Paradise	" Mariana
CHERRY, Mahaleb	PEAR, Kieffer
" Mazzard	" French
QUINCE,	MANETTI ROSE

SEEDS

PEACH
MYROBOLAN PLUM
MAZZARD CHERRY
FRENCH PEAR
KIEFFER PEAR
QUINCE

Some Specials

HYDRANGEA PANICULATA GRANDIFLORA
VIBURNUM PLICATUM. The true Japan variety
CALIFORNIAN PRIVET. All sizes
OAKS. Largest stock in country
PERENNIALS. Choice stock of the more popular kinds
RAFFIA. The famous RED STAR brand. Also dyed in ten colors

We also offer a very large stock of seedlings and one and two year old shrubs.
These are exceptionally fine and especially suitable for planting in nursery rows.
Write for our new trade-list "Fall 1903."

THOMAS MEEHAN AND SONS, INC. & DRESHER TOWN, PENNA.

MOUNT ARBOR NURSERIES

E. S. WELCH, Proprietor

SHENANDOAH,

IOWA

Offer one of the Largest and Most Complete
Lines of General Nursery Stock on the Market.

APPLE, in large Assortment.

Also PLUM, PEACH, CHERRY,
Standard and Dwarf PEAR, includ-
ing a large stock of Kieffer.

ROSES, SHRUBS, Vines, etc.

SHADE and ORNAMENTAL TREES—All
Sizes.

Immense Stock of Nursery Grown
FOREST TREE SEEDLINGS.

Correspondence and Inspection Invited.

*The
Many
Points*

The "Burnham" Boilers are easy to oper-
ate and easy to clean. They work
economically, easily and efficiently.
They have large direct fire surface en-
tirely surrounded by water, with no
joints to leak.

of Superiority of "BURNHAM"
BOILERS recom-
mend them to all users.

Plans and estimates furnished for the material only or for
heating and ventilating apparatus erected complete.

WE ARE HEADQUARTERS FOR

Greenhouse Building Material

of all kinds and shall be pleased to have your inquiries.

Catalogue mailed upon receipt of five cents for postage

LORD & BURNHAM CO.

New York Office, St. James Building, Broadway and 26th St.

General Office and Works, Irvington-on-Hudson, N. Y.

WE offer 1,000,000 June Bud Peach, large stock 2-yr Apple, 1-yr
Pear and Cherry. Southern Mountain Natural Peach Seed
and Western grown Apple Seedlings. Before placing your
order write us; we can save you money.

CHATTANOOGA NURSERIES, CHATTANOOGA, TENN.

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.

HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

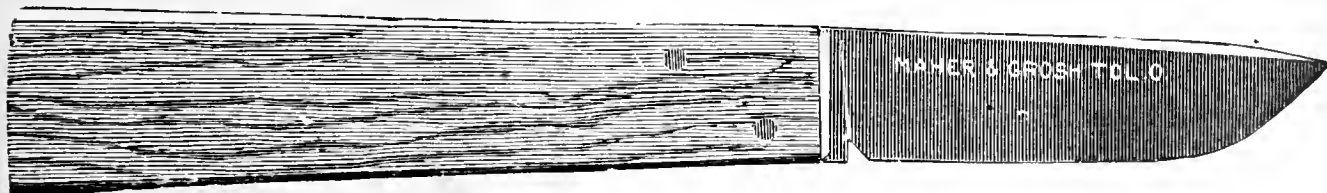
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail, \$2.25.

BUDDING KNIFE with folding blade, No. 93. By mail 35 cents; 6 for \$1.75.

GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.

SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

When writing to Advertisers mention The National Nurseryman.

**Nurserymen's
KNIVES**

Hand Forged. Razor Steel. Warranted,

Since 1877 we have been selling the nursery
trade, and have over 3,000 nurseries in our list
of customers. It is a trade we take great
pains to please. We issue an 80-page catalogue
of Knives, Shears, Razors and Strops, and send
free to all who ask for one.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of

**Fruit and
Ornamental**
stock for fall
trade.

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubbery
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

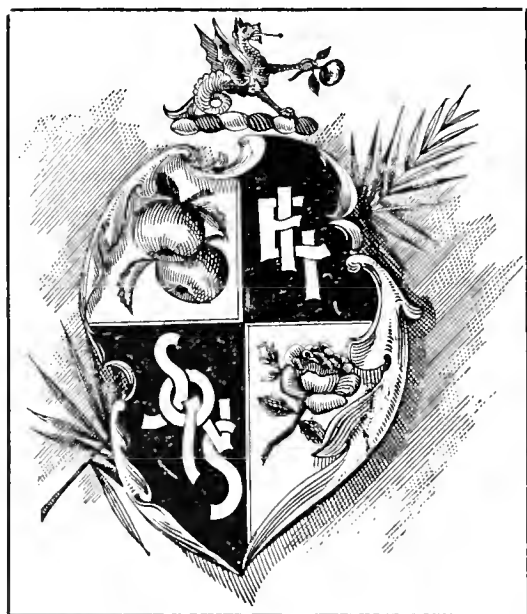
THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

Office, Cutler Building

Nurseries at Brighton

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES, CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

**Offer for
Fall
Shipment**

**Apple, Pear, Plum
and Peach**

BY THE CARLOAD.

We will equalize freights with the principal Eastern shipping points, and will guarantee to interest you with our prices. Write us.

HILL'S EVERGREEN NURSERIES

intend to keep at the head for hardy, nursery grown trees for the nursery trade. A general assortment of seedling varieties, all sizes. A large supply of Douglas, Hemlock, and White Spruces. A grand lot of the famous Rocky Mountain Blue Spruce and Concolors. White, Scotch, Austrian and Dwarf Mountain Pines. Arborvirates, etc. Over two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

**APPLE
TREES**

2 and 3 years old, smooth, well-grown, fine stock
Complete list of varieties. Grades mostly $\frac{3}{4}$ and up,
and $\frac{5}{8}$ to $\frac{3}{4}$.

Will make special low low prices in car lots or less for
fall delivery. Correspondence invited.

South St. Louis Nurseries,

5,600 GRAVOIS AVE., ST. LOUIS, MO.

B. Muellerklein's Nurseries

KARLSTADT, Bavaria, Germany

THE LARGEST CULTURES IN

Currants and Gooseberries

Standards

Straight Stems, (3 4 ft. high), Strong Heads.
Best varieties.

Write and get my prices before ordering elsewhere.

Cash with order, or best references.

When writing to Advertisers mention The National Nurseryman.

E. T. DICKINSON, CHATENAY SEINE, FRANCE

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and
grove. For fence posts, telegraph and telephone poles, most
lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

Peach Trees 1 yr. from bud, 300,000 Trees of lead-
ing sorts.

Plum Trees On Marianna stocks, 1 yr. from bud, Jap-
anese and American varieties, all smooth
and well-grown. Peach and Plum buds to offer.

Asparagus Roots 2 yr. old, Palmetto, Con-
overs Colossal and Barr's
Philadelphia Mammoth. For Fall of 1903.

THE DELAWARE NURSERIES,

D. S. COLLINS, Mgr.

Milford, Delaware.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD.

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

THE FRASER NURSERY

JOHN FRASER, PROP.

HUNTSVILLE, ALA.

HAVE TO OFFER FOR FALL

MANETTI and MARIANA STOCKS.

CHERRY, one year.

STD. PEAR, one and two years.

Mulberries, H. P. and Climbing Roses, Magnolia, Grandiflora, California
Privet, Hydrangeas, Althea, Chionanthus, Exochordia, Ampelopsis Veitchii,
Carolina Poplar, etc. Write for Prices.

Russian Apricot Seedlings

We have a large stock at very favorable prices. Black and Honey Locust
and Russian Mulberry Seedlings. 100,000 2 yr. Apple. Get our prices

J. A. GAGE, Beatrice, Neb.

DREER'S HARDY PERENNIALS

SPECIALTIES

Anemone Japonica

Asters (Michaelmas Daisies)

Campanulas (Bell-Flowers)

Iriskaempfer and Germanica

Paeonies

Phlox Decussata

Pinks choice hardy sorts

Primulas

Rudbeckias

Stokesia Cyanea

Tritoma Pfitzeri

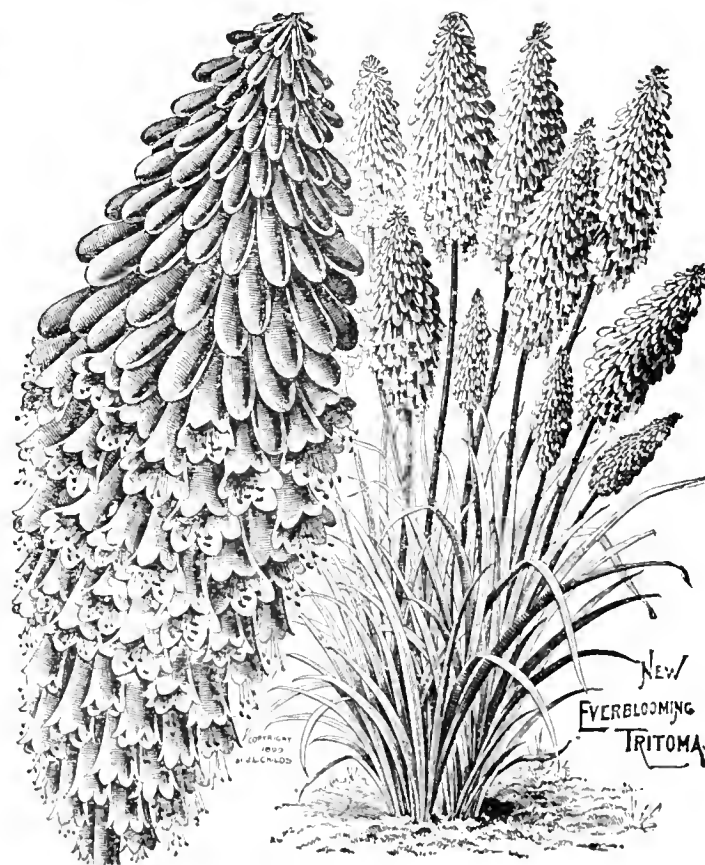
We are specialists in this class of plants and carry not only the largest
stock but the greatest variety. Our list contains many rare plants not
generally found in American collections.

Send us a list of your requirements in this line, and we shall be pleased
to quote prices which will interest you.

HENRY A. DREER,

PHILADELPHIA,

PA.



TRITOMA PFITZERI (Red-hot Poker Plant)

"HAYMAKER"

THE NEW
RASPBERRY



Beyond doubt the most profitable Raspberry ever introduced. Very large canes; hardy and vigorous grower. Fruit lighter in color than any of the purple sorts; also, much firmer. Our entire crop sold at \$3.50 to \$4.00 per bushel last season.

Just the thing for your agents to work this winter. Colored plate and full description free—also several other special new Fruits to work for Spring.

Good Margins, Good Stock and Good Sellers.

WE HAVE ALMOST

"Everything in Small Fruit Plants"

At remarkable low prices. Send for our new Fall list, as we think we can do well by you and make you money.

W. N. SCARFF,
New Carlisle, Ohio.

APPLES 100,000 2 and 3-year-old, in large assortment, as fine as grows.

PEACH 185,000. 50 leading sorts from Southern Natural Pits grown on new land.

ASPARAGUS ROOTS 1,250,000 Fine, Strong 1 and 2-year plants. Palmetto, Barr's, Donald's and Giant Argenteuil.

These are our specialties for the trade and we invite correspondence.

We also grow California Privet, Japan Plums, Golden Glow, Lucretia Dewberries, and Large Norway Maples.

WEST JERSEY NURSERY CO.

STANTON B. COLE, - BRIDGETON, N. J.

THE NEW BLACKBERRY WARD

*By Far the Best Market Blackberry Now
Before the Public.*

For description and price address either

CHAS. BLACK, D. BAIRD & SON,
OR
Hightstown, N. J. Baird, N. J.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries,

Fall 1903 and Spring 1904, offer the following
in Car Lots or Less

Apple 2 and 3 Year

Plum 1 and 2 Year strong on Japans

Peach, (100,000 40 Varieties)

Standard and Dwarf Pear, very fine

Cherry, 1 year 5-8 and all up 3 to 5
feet

Cherry, 1 year Sweets 6 to 8 feet
Branched and Whips

Carolina Poplars

Cut Leaved Maples

Catalpa and Black Locust Seedlings

Silver Maples

W. C. REED, Proprietor

VINCENNES, INDIANA

1851 Knox Nurseries 1903

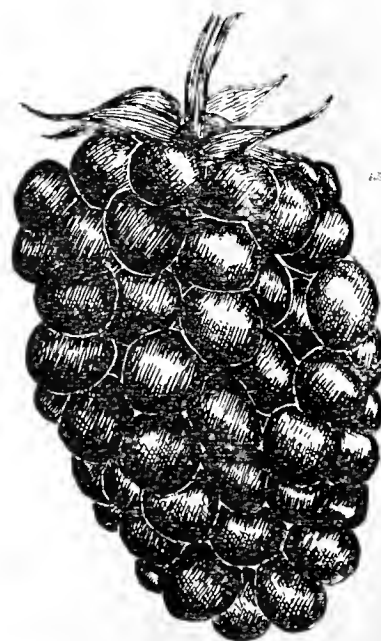
We offer for Fall 1903 a complete line of

NURSERY STOCK

And solicit your orders. We have a fine block of apple, 2-yrs., growing at Topeka, Kansas, and would like to sell the whole block. The block consists of the leading sorts and we would be pleased to give particulars to any prospective buyer. We also make a specialty of Cherry, one year. We still have some left of the smaller grades. Also have a nice lot of peach and 3-yr. Apple. Norway Spruce and Roses to offer, and a large number of Catalpa Speciosa Seedlings.

VINCENNES, INDIANA.

H. M. SIMPSON & SONS.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

ELMIRE SEBIRE, Ussy, Calvados, France

Grower and shipper of Nursery Stock: *Ornamentals*, trees and shrubs; *Evergreens*, *Conifers*, *Forest Trees*, for late fall delivery; also a limited stock left of *Pear*, and *Quince Fruit Stock Seedlings*.

Send for estimates to our sole American agents,

AUGUST ROLKER & SONS,

P. O. Box 752.

31 Barclay St., New York

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS.

RAFFIA FIBRE in Prime Nurserymen's Quality.

GRAPE VINES

AND

Gurran Plants

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELLOCK & CLARK

FREDONIA, N. Y.

I HAVE TO OFFER FOR FALL 1903 AND SPRING 1904

A GENERAL LINE OF

Nursery Stock

I MAKE A SPECIALTY OF

CHERRY AND PLUM

Both one and two years.

Correspondence Solicited.

JAS. M. KENNEDY.

DANSVILLE, N. Y.

The Willadean Nurseries

OFFER FOR FALL 1904

Apples, Pears, Standard and Dwarf Plums, Cherry, Grape Vines, Small Fruit Plants, Rhubarb, Asparagus, Ornamentals, Shrubs, Herbaceous and Hardy Perennials.

Forest Tree Seedlings we have in quantities, over 50 kinds, nursery grown. Tree seeds we have in season in large quantities. Send us your list of wants. We can interest you. Trade list ready September 1st.

THE DONALDSON CO., Warsaw, Ky.

Successors to DONALDSON & GIBSON.

When writing to Advertisers mention The National Nurseryman.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of
Highlands Nursery, N. C.

Beacon Building,
BOSTON, MASS.

CHARLES DETRICHE, Senior,

ANGERS, FRANCE,

Grower and Exporter of Fruit Tree Stocks, Forest Trees and Ornamentals.

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

Mr. Detriché would be glad to receive any horticultural catalogues or papers.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

200,000

SURPLUS APPLE TREES

Two years old, clean, thrifty, smooth, well grown trees every way. Good assortment Summer, Fall and Winter varieties. Will give bargains to reduce this stock. One hundred thousand Mariana Stocks, grown from nice smooth cuttings, not over grown, just the right size. Lowest price given on application.

MARBLE CITY NURSERY CO.

KNOXVILLE, TENN.

When writing to Advertisers mention The National Nurseryman.

Cedar Hill Nursery & Orchard Co.

Winchester, Tenn.,

have a fine lot of

NATURAL TENNESSEE and NORTH CAROLINA PEACH PITS

to offer, crop 1903. Also extra fine

APPLE, PEACH, PEAR, PLUM, CHERRY, etc.

Write for Prices.

PEACH PITS

Supply Limited. Write at Once.

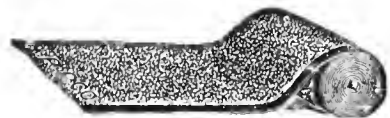
THOMAS NEEHAN & SONS, Inc., Dreshertown, Pa.

Wanted, for Cash,

Houghton Gooseberries, 1 and 2-year plants.

J. S. LINTHICUM,

WELLHAMS A. A. CO., MD.



ARROW BRAND

Asphalt Ready Roofing.

Comes in rolls already supplied with gravel, and can be applied by any handy man. Free samples sent upon application.

ASPHALT READY ROOFING CO.,

Traders' Exchange Bld'g, Water St., near Pine, New York City.

If you are in the market for **PEACH PITS** in car-load lots we can supply same. The pits we offer are of medium size and clean. For further particulars address **Fancher Creek Nurseries, (Inc.) Fresno, Cal.**

For Fall of 1903

Lombardy Poplars, fine heads
1 inch cal. to 3 inches.

Carolina Poplars, low heads, 1 to 1½ inch Cal.

Norway Maples, 1 inch to 3 inch Cal.

Norway Maples, seed beds.

Silver Maples, 5 to 7 feet, low price.

Osage Orange, Low price. Peach trees.

JOSIAH A. ROBERTS, Malvern, Pa.

The Laketon Nurseries

LAKETON, IND.

We have in surplus, 25,000 Apple, ¾ and up.

10,000 " ⅝ and up.

Leading standard sorts. Certificate of inspection furnished with shipment. Other general stock in limited supply. Send list of wants.

G. N. MOYER, Prop.

We offer Special Inducements in

Budded Pecans

Japan Persimmons

Figs

Muscadine Grapes

ORNAMENTAL TREES, SHRUBS AND ROSES

Also a general line of nursery stock for the South and South-West. Peaches, Plums, Pears, Citrus Trees, etc., etc. Send us your list of wants.

We don't quote Trade Prices to Planters.

The Griffing Bros. Co.

Nurserymen

JACKSONVILLE, FLA.

STARK BRO'S NURSERIES & ORCHARDS CO

Growers of General Nursery Stock

CARLOAD LOTS of Apple, Peach, Plum, Cherry, Standard and Dwarf Pear, Grape, etc.

Particular attention called to large stocks of

APPLE SEEDLINGS

GRAPE VINES of the leading varieties

CURRENTS

GOOSEBERRIES

BUDED LILACS, finest new sorts

BECHTEL DOUBLE-FLOWERED Crab, etc.



GENERAL OFFICES, Nurseries, Packing Houses, etc., LOUISIANA, MO. BRANCHES: Starkdale, Mo., Huntsville, Ala., Fayetteville, Ark., Dansville, N. Y., Atlantic, Iowa. Grape Nurseries, Portland, Chautauqua Co., N. Y.

World's Fair, St. Louis, 1904.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

HAVE TO OFFER

APPLE, CHERRY, PEACH

KEIFFER PEAR

(2 yr.)

SHADE TREES

JAPAN PEAR SEEDLING OSAGE CATALPA

GRAPE VINES BECHTEL'S FLOWERING CRAB

FALL OF 1903

SPRING OF 1904

MT. HOPE NURSERIES

ESTABLISHED 1869

A CHOICE STOCK OF APPLE TREES AND PEACH TREES

In all grades, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$, $\frac{1}{2}$ to $\frac{5}{8}$, 9-16 to $\frac{1}{2}$

ALSO A FULL LINE OF OTHER TREES AND SHRUBS.

Address, A. C. GREISA, LAWRENCE, KANSAS.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,

509 Arch Street, PHILADELPHIA, Pa.

VICTOR DÉTRICHÉ ANGERS, FRANCE.

Extensive Nurseries of Fruit and Ornamental Stocks,
Evergreens, Shrubs, Roses, etc.

All Stocks are in prime condition. Advance price list for Fruit Trees and Rose Stocks on application. Complete catalogues in September. Address all orders and communications to my sole representative for the United States and Canada,

19 Barclay St., New York, CHAS. F. MEYER.

ELBERTA

500,000 Peach, 250,000 Elberta

250,000 in Assortment, Viz.:

Champion, Crosby, Capt. Ede, Crawford, Heath
Cling, Mountain Rose, O. M. Free, Piquetts Late,
Salway and others. Good roots, good tops,
smooth, entirely healthy and true to label.

We have more trees growing than we have
cellar room for the coming Winter, hence we
will make close prices for car lot orders for Fall
shipment. Visit us, inquire about us.

Write for Prices.

Located three hours west from St. Louis on main lines of
Wabash and Chicago and Alton Railroads.

Address Nursery Dept.

Ortiz Fruit Farm

MEXICO, MO.

When writing to Advertisers mention The National Nurseryman.

California Seedling

— AND —

Grafted Peach Pits

FOR SALE IN CAR LOAL LOTS.

GEO. F. DITZLER,
Biggs, Butte County, Cal.

THE
AUTOMATIC
COPYING
BOOK

COPIES WHILE YOU WRITE

Simplest and best. Always ready; use any pen and paper. No press and no trouble. Prevents costly mistakes. Samples of work and endorsements free. Duplicating Books of all Kinds Made to Order.

PERSHING & CO.,

142 Michigan Street, SOUTH BEND, IND.

4,000,000 PEACH TREES

Largest stock of Peach grown by
any one man in the United States.
Write me before you place your
order for Fall of 1903 and Spring
of 1904.

TENNESSEE WHOLESALE NURSERIES,

J. C. HALE, Proprietor.

Winchester, Tenn.

Nuts-Peaches-Nuts

20 000 Japan Walnuts, 4 inches to 12 feet.

20,000 Black Walnuts, 4 inches to 8 feet.

5,000 English Walnuts, 4 inches to 5 feet.

500 Grafted Japan Walnuts, 2 to 4 feet.

5,000 Butternuts, 4 to 15 inches.

50,000 Pecan Seedlings, 4 inches to 6 feet

5,000 Pecan Grafts, 6 inches to 4 feet.

5,000 Pecan Seedlings (cut backs), 2 to 4 feet.

10,000 Spanish Chestnuts, 6 inches to 6 feet.

2,000 American Chestnuts, 6 inches to 6 feet.

6,000 Japan Chestnuts, 6 inches to 3 feet.

2,000 Grafted Chestnuts, 6 inches to 5 feet.

3,000 Almonds, 2 to 6 feet.

2,000 English Filberts, 2 to 5 feet.

150,000 One Year Peach.

100,000 June Bud Peaches.

10,000 June Bud Plums.

Also Apples, Cherries, Plums, Hardy Flowering Shrubs, Etc.

Write for prices to

American Plant and Seed Co.

NASHVILLE, TENN.

When writing to Advertisers mention The National Nurseryman

McNARY & GAINES

XENIA STAR NURSERIES

XENIA, OHIO.

A General Line of Superior Stock, Grown Especially for the Wholesale Trade.

APPLE As heretofore, our Apples are equal to the very best. This refers to the entire tree, top, body and root. Sixty varieties.

PEAR Standard, dwarf and high top. Good general assortment, including choice Kieffer.

CHERRY The Cherries grown by us are absolutely unexcelled, and we repeat our last year's claim: "We have the best cherry in the United States." You are invited to verify this by a personal inspection of our blocks.

PLUM General assortment on plum and on peach roots, including the leading varieties of European, Japan, native and new hybrids.

PEACH Very promising blocks. Full list of leading and best kinds. Strong on Elberta and Champion.

OTHER STOCK.

We will have our usual stock of Grape Vines, Small Fruits, Ornamental Trees, Shrubs, Vines, Etc.

OUR LEADING SPECIALTY ——— The Opalescent Apple

is the best seller now offered by retail nurserymen. It is offered on its merits, and is a variety of undoubted value that will do your customers good. Supplied on special contract only. Plates free.

A personal inspection of our entire stock is cordially invited. An opportunity to submit prices is respectfully requested.

McNARY & GAINES, Xenia, Ohio.

Evergreen AND Forest Tree Seedlings

ORNAMENTAL TREES,
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons
Waukegan Nurseries
WAUKEGAN, - - ILL.

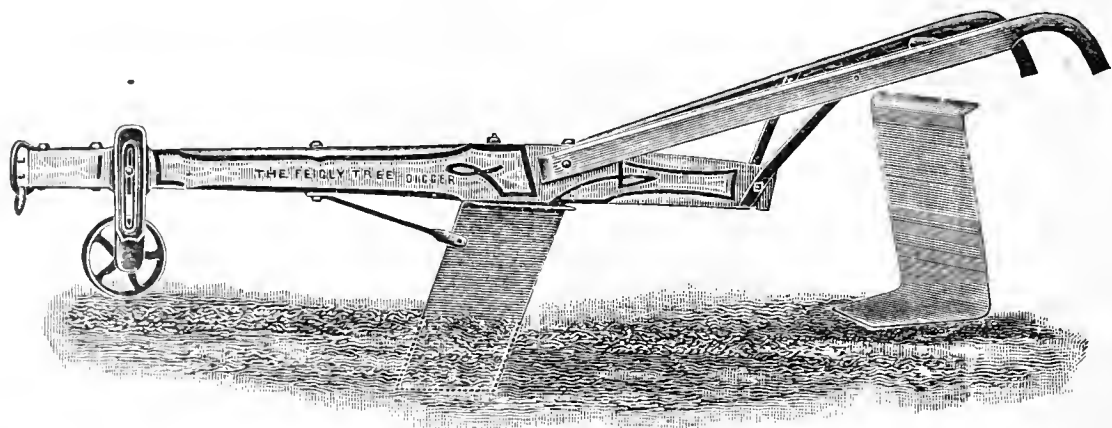


WHAT IS "TIP-TOP"? ... DAUS' TO PROVE

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making 100 copies from Pen-written and 50 copies from Type-written original we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33 $\frac{1}{3}$ per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.



The Improved FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

D. FEIGLY, MEDWAY, O.
SOLE AGENT.

Send for Circular.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty



Two year Maynard Tree and basket of fruit.
 Burbank in the background.

Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902.

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

TREES READY FOR SHIPMENT

JUNE BUDDED PEACH TREES.

June Buds, 18 inches and up

June Buds, 12 to 18 inches.

June Buds, 8 to 12 inches.

PEACH, ONE YEAR FROM BUD.

One year, extra, $\frac{3}{4}$ to 1 inch, 5 to 8 ft., branched,

One year, $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 6 ft., branched extra,

One year, $\frac{9}{16}$ to $\frac{5}{8}$, 4 to 6 ft., branched, No. 1,

One year $\frac{1}{2}$ to $\frac{9}{16}$, 4 to 5 ft., branched,

One year, $\frac{3}{8}$ to $\frac{1}{2}$, 3 to 4 ft., more or less branched.

VARIETIES IN WHOLESALE LIST

APPLE.

First Class, 5 to 6 ft., $\frac{3}{4}$ up, well branched,

First Class, 4 to 6 ft., $\frac{5}{8}$ to $\frac{3}{4}$, well branched,

First Class, 4 to 6 ft., $\frac{9}{16}$ to $\frac{5}{8}$, well branched,

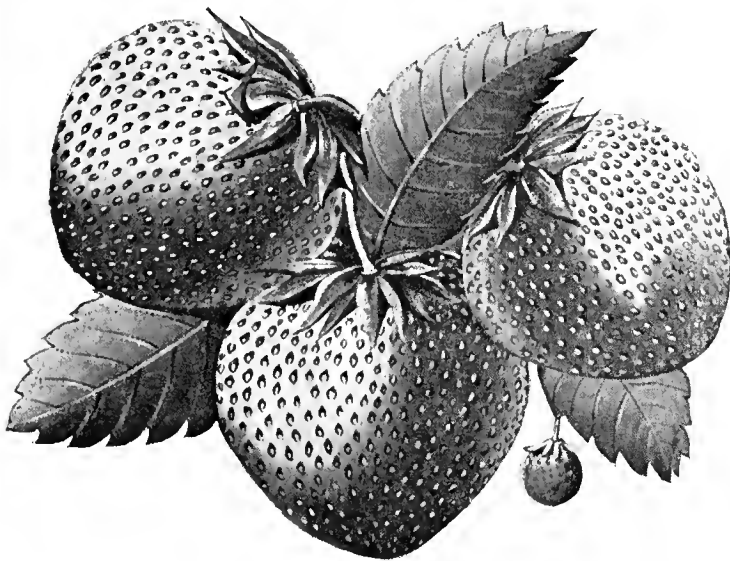
First Class, 4 to 5 ft., $\frac{1}{2}$ to $\frac{9}{16}$, well branched,

First Class, 3 to 5 ft., branched and whips.

APPLE SCIONS.

STRAWBERRY PLANTS.

We have a complete list of strawberry plants. No plants sent out until after October 1st. After December 1st our customers may deduct from the price 20 per cent. We shall issue a new catalogue in January, giving full description of the old and new varieties. Our customers for strawberry plants cover every State in the Union. We can dig most every month during the winter and spring, except some in January and February. Our plants are tied in bundles of 25 each, packed in moss in the very best manner in crates especially designed for this purpose.



Auto,
Aroma,
Bush Cluster,
Bubach,
Bismarck,
Beder Wood,
Cobden Queen,
Clyde,
Crescent,
Dayton,
Early Hathaway,
Excelsior,
Eleanor,
Gandy,
Gladstone,
Glen Mary,
Greenville,

Haverland,
Hero,
Johnson's Early,
Jessie
Lady Thompson,
Louis Huboch,
Lovetts,
Livingston,
Lester Lovett,
Mark Hanna,
Marie,
Marshall,
Michell's Early,
Nick Ohmer,
Ocean City,
Parker Earle,
Parsons,

Paris King,
Rough Rider,
Rio,
Star,
Saunders,
Sharpless,
Sample,
Smith,
Superior,
Tennessee,
Tubbs,
Thompson's Early,
Uncle Jim,
Warfield,
Wm. Belt,
Yant.

KIEFFER PEAR TREES.

PEAR TREES—TWO YEARS, GRAFTED ON FRENCH PEAR SEEDLINGS,
WHOLE ROOTS.

Two years, $\frac{3}{4}$ and up, 5 to 7 ft.,

Two years, $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 6 ft., well branched,

Two years, $\frac{9}{16}$ to $\frac{5}{8}$, 4 to 5 ft., well branched,

Two years, $\frac{1}{2}$ to $\frac{9}{16}$, 4 to 5 ft., well branched,

Two years, $\frac{3}{8}$ to $\frac{1}{2}$, $3\frac{1}{2}$ to $4\frac{1}{2}$ ft.,

Two years 3 to 4 ft., whips,

One year, 2 to 3 feet.

CHERRY ON MAZZARD.

First class, 5 to 6 ft., $\frac{3}{4}$ and up, two year,

First class, 4 to 6 ft., $\frac{5}{8}$ to $\frac{3}{4}$, " "

First class, 4 to 6 ft., $\frac{9}{16}$ to $\frac{5}{8}$, " "

First class, 4 to 5 ft., $\frac{1}{2}$ to $\frac{9}{16}$, " "

First class, 3 to 4 ft., " "

Varieties: Early Richmond and Montmorency. Baldwin

Cherry, twice the price of standard stock.

ASPARAGUS

TWO YEAR.

Columbian Mammoth White.

Donald's Elmira,

Palmetto,

Barr's Mammoth,

Conover's Colossal.

GRAPE VINES.

TWO YEAR, No. 1.

Concord,
Moore's Early,
Niagara,
Pocklington,
Brighton,
Salem,
Martha,
Catawba,
Champion,
Wyoming,
Delaware,
Agawam,
Lady,
Diamond.

Carolina Poplars, 10 to 20 ft.,

" " 8 to 10 ft.,

Sugar Maples, 10 to 12 ft.,

" " 8 to 10 ft.,

Norway Maples, 10 to 12 ft.,

" " 8 to 10 ft.,

Black Walnuts, 6 to 8 ft.,

" " 5 to 6 ft.,

SEND FOR NEW WHOLESALE PRICE LIST TO-DAY.
CAN SHIP ON SHORT NOTICE ANY OF ABOVE STOCK

J. G. HARRISON AND SONS,

BERLIN, MD.



Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.

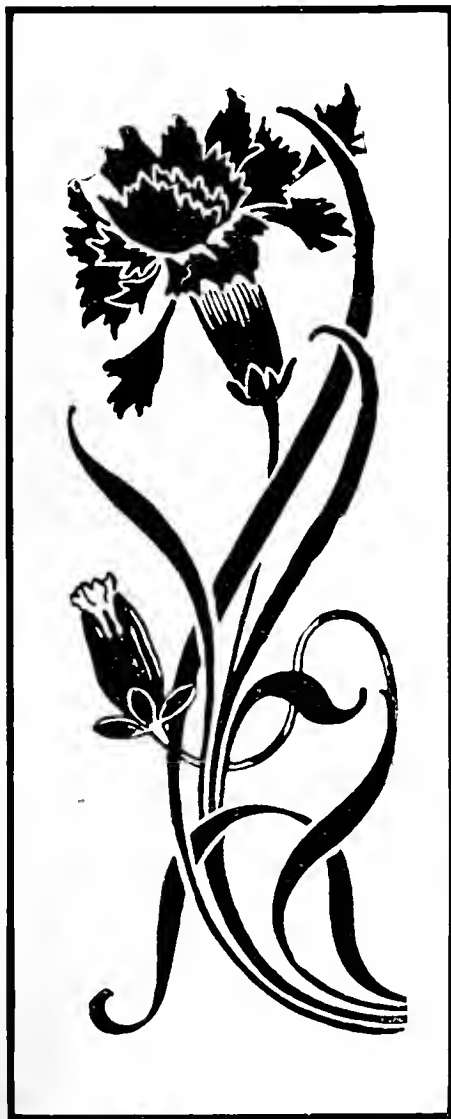


Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Offer one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds



One million Peach Trees, grown on bank of Lake Erie. No healthier, better trees can be produced.

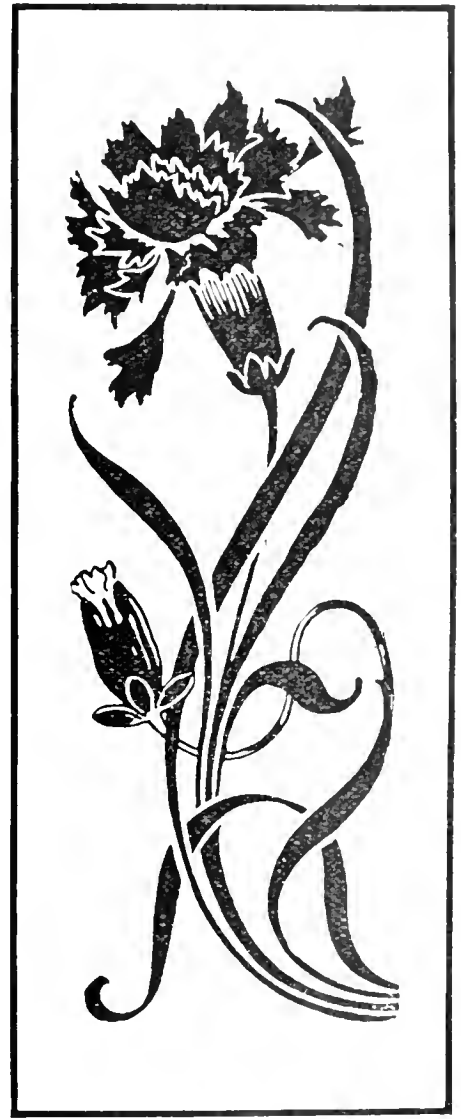
Fine blocks 2 and 3 year Standard and Dwarf Pear, Apple, Cherries and Plums.

Call especial attention to our **Small Fruit Department**—immense stock all leading varieties, highest grade, packed right. Currants, Gooseberries, Blackberries, Raspberries, Grape Vines, Etc.

Roses — Largest acreage field-grown plants in the world.

Clematis—Large flowered and Paniculata, Ampelopsis Veitchii in large supply with all other leading varieties vines and shrubs. Ornamental Hedge Plants, California Privet, Japan Quince, Berberry Thunbergii, Purple and Green Leaf, Tartarian Honeysuckle, etc.

Direct importations from leading Holland, Belgium and French growers of Chinese Azaleas, Palms, Bulbs, etc.



Let us estimate on your list of wants. Special rates on car lots for fall shipment or stored for spring delivery. Personal inspection cordially invited : : : : : : : : : :

CATALOGUES AND PRICE-LISTS FREE

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs Roses Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.

MOUNT HOPE NURSERIES,
Rochester, N.Y.

Established 1840. Mention this paper.

LIST OF SPECIAL SURPLUS

The following list consists of some few items of which we have rather large supplies that we desire to reduce quickly. The stock is of our best grade and quality, but prices for considerable quantities, will be made unusually low until surplus is reduced:

ROSES. No. 1, on own roots.

Caprice,
Jules Margottin,
La Reine,
La France,
Madame Plantier.

CLEMATIS. 2 yrs., strong.

Coccinea,
Crispa,
Jackmanni,
Paniculata,
Mme. Baron Veillard.

VINES. Strong, field - grown.

Akebia Quinata,
Clematis Jackmannii,
Honeysuckle, Japan Golden-leaved

HERBACEOUS PLANTS.

Achillea, "The Pearl."
Helianthus Maximiliana,
Heliopsis Pitheriana,
Iris, German,
Iris, Kaempferi,
Rudbeckia, Golden Glow.

ORNAMENTALS.

Alder, European, 8-10 ft.
Ash, European, 10-12 ft.
Catalpa Speciosa, 8-9 ft.
Elder, Golden, 3-4 ft.
Elm, American, 10-12 ft.
Elm, American, 8-10 ft.
Elm, English, 10-12 ft.
Filbert, (Hazel), common, 5-6 ft.
Hydrangea Pan. Grand., 18-24 in.
Hydrangea Tree Form, 3-4 ft.
Judas Tree, 2-3 ft.
Maple, Ash-leaved, 8-10 ft.
Maple, Ash-leaved, 6-8 ft.
Maple, English, 6-8 ft.
Maple, English, 5-6 ft.
Maple, Weir's Cut-leaved, 8-10 ft.
Maple, Weir's Cut-leaved, 6-8 ft.
Oak, English, 6-7 ft.
Oak, English, 5-6 ft.
Oak, Scarlet, 5-6 ft.
Oak, Turkey, 5-6 ft.
Poplar, Carolina, 8-10 ft.
Poplar, Lombardy, 8-10 ft.
Strawberry Tree, 5-6 ft.

Complete price-list mailed upon application. Good assortment of old and new varieties.

JACKSON & PERKINS CO.

NEWARK, - New York.

AUG. RHOTERT

(ESTABLISHED 1893.)

26 BARCLAY STREET.
P. O. Box 1250,

NEW YORK

TELEPHONE: 2855 CORTLANDT STREET.

LOUIS LEROY'S NURSERIES. (Established 1795.) Angers, (France)

French Fruit and Ornamental Stocks, Specimen Evergreens and Ornamental Trees, Shrubs, Roses, Magnolias, etc., of best Quality, Paeking, Grading. Prompt deliveries.

M. KOSTER & SONS. - - - Boskoop (Holland)

Holland Clematis, H. P. and Tree Roses, Hardy Azaleas and Rhododendrons, Magnolias, Hydrangeas, fine Specimen Evergreens and Fancy Ornamental Trees. Careful Paeking, complete and prompt deliveries.

Novelties in Azaleas, Rhododendrons and Clematis.

JOHN PALMER & SON, Ltd. (Estab. 1832.) Annan (Scotland)

English Manettis, Norway Maples and Spruce, Birch, Beech, Gooseberries, Rhododendrons, Roses, Evergreens, etc. Best Quality, Grading and Paeking.

TREE SEEDS. Apple and Pear Pips, Myrobalan, Mahaleb and Mazzard Seed, and other Tree Seeds.

RAFFIA! (G. H. R. Brand) RAFFIA!

Very Best Selected Fibre.
From Stock or for Import.

WHOLESALE ONLY. Catalogues and special quotations on application.

When writing to Advertisers mention The National Nurseryman.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

When writing to Advertisers mention The National Nurseryman.

BRIDGEPORT NURSERIES

Grow one of the most complete lines of Hardy Nursery Stock in the country, and have for

FALL 1903 AND SPRING 1904

In quantities to suit customers — CAR-LOAD LOTS, or LESS, at prices that will interest you.

Apple
Plum
Peach
Grapes
Gooseberries
Raspberries

C. Poplar
Norway Maple
Catalpa
Chestnuts
Shrubs
Roses

Pear
Cherry
Quince
Currants
Strawberries
Blackberries

Silver Maple
Hard Maple
Box Elder
Evergreens
Vines
Etc.

APPLE SEEDLINGS

Mariana Plum Stocks.

Imported Seedlings.

APPLE AND PEAR GRAFTS

POMONA—Currant the most profitable.

SPADES—The BEST and CHEAPEST.

EXCELSIOR (baled). The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE Cheaper, and far superior to Moss.

Our STORAGE and SHIPPING facilities are unsurpassed.

Trade-list ready about September 1st.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

Trade Winners, We Have Them

Apple, $\frac{3}{4}$ in. and up, 5 to 7 feet. Apple, $\frac{3}{4}$ in. to $\frac{1}{2}$ in., 5 to 6 feet.
" $\frac{1}{2}$ in. to $\frac{3}{4}$ in., 4 to 5 feet. " 7-16 to $\frac{1}{2}$ in., 3 to 4 feet.

Heavy on Ben Davis, York Imperial, Baldwin, Gano, Wine Sap, M. B. Twig, and other leading sorts.

PEARS—A fine lot of Garber, Keiffer and Clapps' Favorite in the two upper grades.

PLUM ON PEACH, one year, $\frac{3}{8}$, $\frac{1}{2}$ to $\frac{5}{8}$, 7-16 to $\frac{1}{2}$. Varieties, Abundance, Burbank, Wickson, German Prune, Duans Purple, Bradshaw, and a few others.

Car load lots a specialty, let us figure on your want list for this fall and next spring. Correspondence solicited.

Peach, $\frac{3}{8}$ and up. Peach, 9-16 to $\frac{3}{8}$. Peach, $\frac{1}{2}$ to 9-16
Peach, 7-16 to $\frac{1}{2}$ Peach, $\frac{3}{8}$ to 7-16.

Heavy on Elberta, Beers Smock, O. M. Free, Salway, and other leading sorts.

The Village Nurseries

HARNEDSVILLE, PENNA.

Fruit Stocks and Seeds

Not nearly enough to supply the demand. Write immediately if you contemplate purchasing. Mahaleb, cherry and apple seed is already exhausted. Here is what we offer:—

STOCKS

APPLE, French PLUM, Myrobolan
" Paradise " Mariana
CHERRY, Mahaleb PEAR, Kieffer
" Mazzard " French
QUINCE, MANETTI ROSE

SEEDS

PEACH
MYROBOLAN PLUM
MAZZARD CHERRY
FRENCH PEAR
KIEFFER PEAR
QUINCE

Some Specials

HYDRANGEA PANICULATA GRANDIFLORA
VIBURNUM PLICATUM. The true Japan variety
CALIFORNIAN PRIVET. All sizes
OAKS. Largest stock in country
PERENNIALS. Choice stock of the more popular kinds
RAFFIA. The famous RED STAR brand. Also dyed in ten colors

We also offer a very large stock of seedlings and one and two year old shrubs. These are exceptionally fine and especially suitable for planting in nursery rows. Write for our new trade-list "Fall 1903."

THOMAS MEEHAN AND SONS, INC. & DRESHER TOWN, PENNA.

E. T. DICKINSON, CHATENAY SEINE, FRANCE

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and
grove. For fence posts, telegraph and telephone poles, most
lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

Peach Trees 1 yr. from bud, 300,000 Trees of lead-
ing sorts.

Plum Trees On Marianna stocks, 1 yr. from bud, Jap-
anese and American varieties, all smooth
and well-grown. Peach and Plum buds to offer.

Asparagus Roots 2 yr. old, Palmetto, Con-
overs Colossal and Barr's
Philadelphia Mammoth. For Fall of 1903.

THE DELAWARE NURSERIES,

D. S. COLLINS, Mgr.

Milford, Delaware.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD.

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

THE FRASER NURSERY

JOHN FRASER, PROP.

HUNTSVILLE, ALA.

HAVE TO OFFER FOR FALL

MANETTI and MARIANA STOCKS.

CHERRY, one year.

STD. PEAR, one and two years.

Mulberries, H. P. and Climbing Roses, Magnolia, Grandiflora, California
Privet, Hydrangeas, Althea, Chionanthus, Exochordia, Ampelopsis Veitchii,
Carolina Poplar, etc. Write for Prices.

Russian Apricot Seedlings

We have a large stock at very favorable prices. Black and Honey Locust
and Russian Mulberry Seedlings. 100,000 2 yr. Apple. Get our prices.

J. A. GAGE, Beatrice, Neb.

DREER'S HARDY PERENNIALS

SPECIALTIES

Anemone Japonica

Asters (Michaelmas Daisies)

Campanulas (Bell-Flowers)

Iriskaempfer and Germanica

Paeonies

Phlox Decussata

Pinks choice hardy sorts

Primulas

Rudbeckias

Stokesia Cyanea

Tritoma Pfitzeri

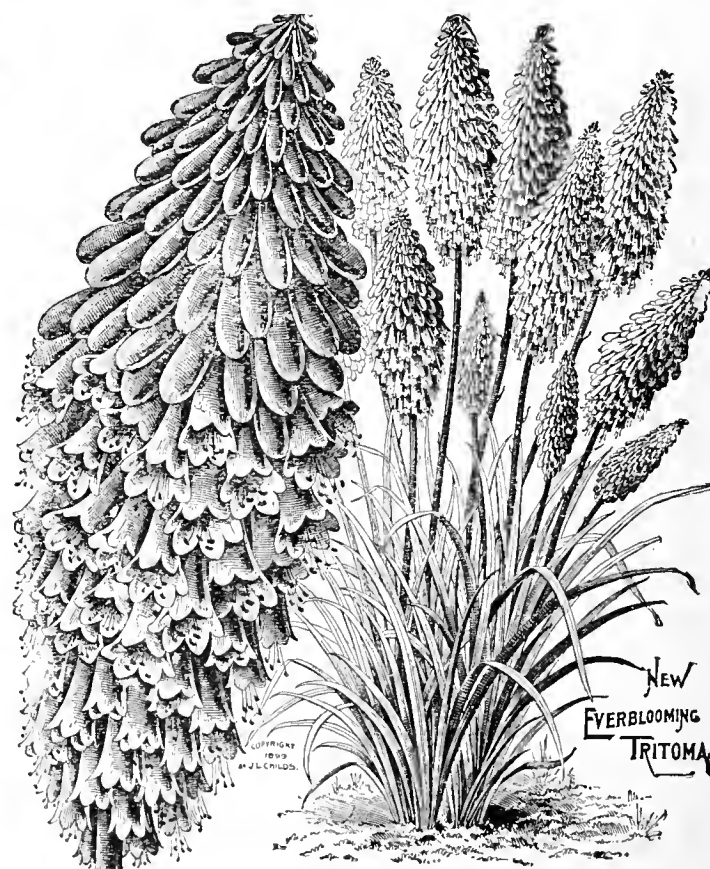
We are specialists in this class of plants and carry not only the largest
stock but the greatest variety. Our list contains many rare plants not
generally found in American collections.

Send us a list of your requirements in this line, and we shall be pleased
to quote prices which will interest you.

HENRY A. DREER,

PHILADELPHIA,

PA.



TRITOMA PFITZERI (Red-hot Poker Plant)

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

For Fall of 1903

Lombardy Poplars, fine heads
1 inch cal. to 3 inches.

Carolina Poplars, low heads, 1 to 1½ inch Cal.

Norway Maples, 1 inch to 3 inch Cal.

Norway Maples, seed beds.

Silver Maples, 5 to 7 feet, low price.

Osage Orange, Low price. Peach trees.

JOSIAH A. ROBERTS, Malvern, Pa.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us
with a sample order or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

200,000 SURPLUS APPLE TREES

Two years old, clean, thrifty, smooth, well grown trees every way. Good assortment Summer, Fall and Winter varieties. Will give bargains to reduce this stock. One hundred thousand Mariana Stocks, grown from nice smooth cuttings, not over grown, just the right size. Lowest price given on application.

MARBLE CITY NURSERY CO. KNOXVILLE, TENN.

We offer Special Inducements in

Budded Pecans
Japan Persimmons
Figs
Muscadine Grapes

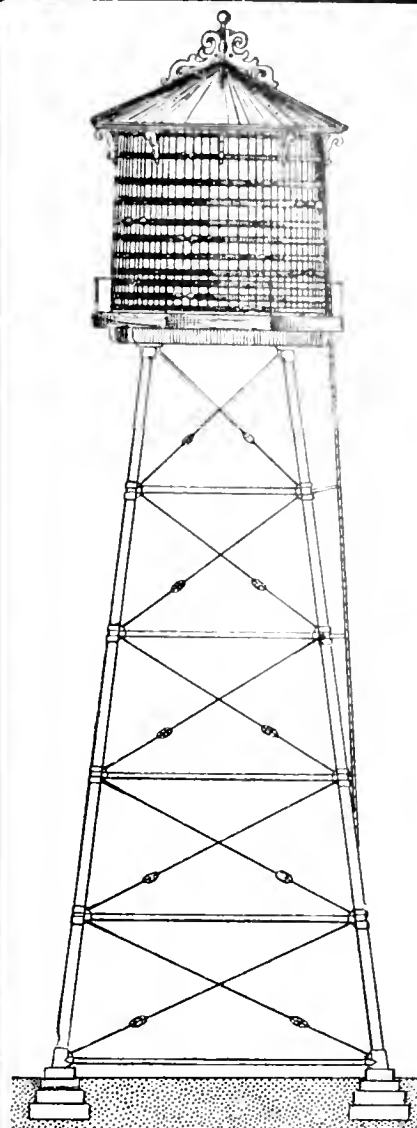
ORNAMENTAL TREES, SHRUBS AND ROSES

Also a general line of nursery stock for the South and South-West. Peaches, Plums, Pears, Citrus Trees, etc., etc. Send us your list of wants.

We don't quote Trade Prices to Planters.

The Griffing Bros. Co.
Nurserymen
JACKSONVILLE, FLA.

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"Absolutely safe and reliable. Ask your friends"

OF WHAT USE

is a water tank that leaks and has to be constantly tinkered to keep it in service.

A CALDWELL TANK

will hold everything put into it and last a lifetime. No dread of drought.

Send for Our Price List.

W. E. CALDWELL CO.,
LOUISVILLE, KY.

Evergreen

AND

Forest Tree Seedlings

ORNAMENTAL TREES,
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons

Waukegan Nurseries
WAUKEGAN, - - ILL.

When writing to Advertisers mention The National Nurseryman.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of

**Fruit and
Ornamental
stock for fall
trade.**

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubbery
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

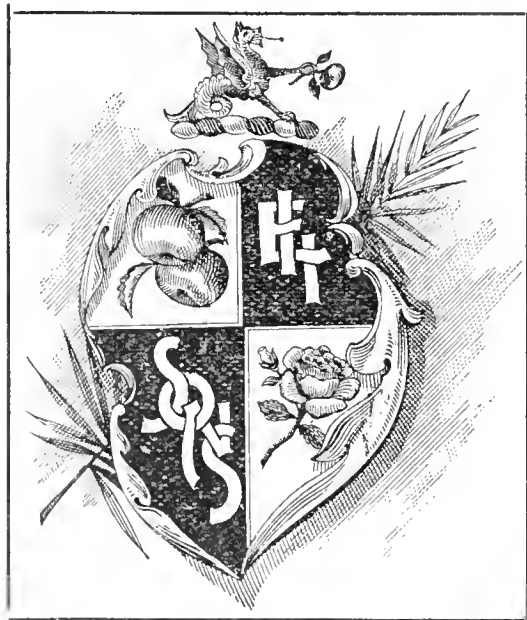
THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

Office, Cutler Building

Nurseries at Brighton

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

**Offer for
Fall
Shipment**

**Apple, Pear, Plum
and Peach**

BY THE CARLOAD.

We will equalize freights with the principal Eastern shipping points, and will guarantee to interest you with our prices. Write us.

HILL'S EVERGREEN NURSERIES

intend to keep at the head for hardy, nursery grown trees for the nursery trade. A general assortment of seedling varieties, all sizes. A large supply of Douglas, Hemlock, and White Spruces. A grand lot of the famous Rocky Mountain Blue Spruce and Concolors. White, Scotch, Austrian and Dwarf Mountain Pines. Arborvites, etc. Over two million seedlings suitable for nursery planting this spring.

D. HILL, EVERGREEN SPECIALIST, DUNDEE, ILL.

**APPLE
TREES**

2 and 3 years old, smooth, well-grown, fine stock
Complete list of varieties. Grades mostly $\frac{3}{4}$ and up,
and $\frac{5}{8}$ to $\frac{3}{4}$.

Will make special low low prices in car lots or less for
fall delivery. Correspondence invited.

South St. Louis Nurseries,

5,600 GRAVOIS AVE., ST. LOUIS, MO.

JAPANESE SPECIALTIES

In NURSERY STOCK, BULBS, etc.,
grown in our own Nurseries in Yokohama
and Tokio, Japan.

MAPLES, CONIFERS,

ORNAMENTAL TREES AND SHRUBS,

TREE AND HERBACEOUS PAEONIES,

IRIS KÄMPFERII, the latest varieties,

LILIES, ETC.,

CHESTNUT AND WALNUT SEED.

Prices free ex cars New York, duty included.
Sound arrival guaranteed. Write for our trade list.

SPECIAL PRICES FOR LARGE QUANTITIES and
hand colored plates for inspection on demand.

Suzuki & Iida

31 Barclay St., NEW YORK.

21-35 Nakamuramachi, YOKOHAMA.

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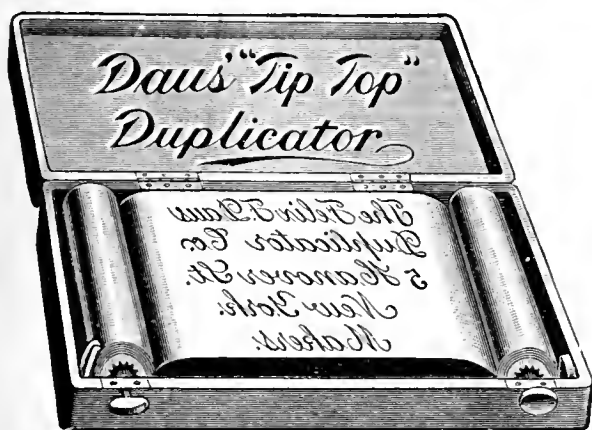
Self-Oiling Ventilating Apparatus

For Greenhouses
and Commercial Buildings

Easy to operate and to secure the precise amount of ventilation. Best on the market at the lowest price consistent with good work and materials. This apparatus is fully illustrated in our Greenhouse Heating and Ventilating Catalogue which will be mailed for five cents to cover postage, also circulars of greenhouse material.

LORD & BURNHAM COMPANY

New York Office, St. James Bldg., B'way & 26th St.
General Office & Works, Irvington-on-Hudson, N. Y.



WHAT IS "TIP-TOP"? ... DAUS'

TO PROVE

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

100 copies from Pen-written and 50 copies from Type-written original

we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33 $\frac{1}{3}$ per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

MOUNT ARBOR NURSERIES

E. S. WELCH, Proprietor

SHENANDOAH,

IOWA

Offer one of the Largest and Most Complete
Lines of General Nursery Stock on the Market.

APPLE, in large Assortment.

Also PLUM, PEACH, CHERRY,
Standard and Dwarf PEAR, includ-
ing a large stock of Kieffer.

ROSES, SHRUBS, Vines, etc.

SHADE and ORNAMENTAL TREES—All
Sizes.

Immense Stock of Nursery Grown
FOREST TREE SEEDLINGS.

Correspondence and Inspection Invited.

When writing to Advertisers mention The National Nurseryman.



**THE
ALTON'S
1904
COW BOY
GIRL**

TRADE-MARK.

"Sequel to the Fencing Girl."

Copyright, 1903, by Chicago
& Alton Railway.

ART CALENDAR

Four graceful poses from life; figures ten inches high, reproduced in colors. Highest example of lithographic art.

"THE ONLY WAY"

to own one of these beautiful calendars is to send twenty-five cents with name of publication in which you read this advertisement, to GEO. J. CHARLTON, Gen'l Passenger Agent, Chicago & Alton Railway, CHICAGO, ILL.

The best railway line between CHICAGO, ST. LOUIS, KANSAS CITY and PEORIA. Take the "Alton" to the St. Louis World's Fair, 1904.

"HAYMAKER"

THE NEW
RASPBERRY



Beyond doubt the most profitable Raspberry ever introduced. Very large canes; hardy and vigorous grower. Fruit lighter in color than any of the purple sorts; also, much firmer. Our entire crop sold at \$3.50 to \$4.00 per bushel last season.

Just the thing for your agents to work this winter. Colored plate and full description free—also several other special new Fruits to work for Spring.

Good Margins, Good Stock and Good Sellers.

WE HAVE ALMOST

"Everything in Small Fruit Plants"

At remarkable low prices. Send for our new Fall list, as we think we can do well by you and make you money.

W. N. SCARFF,
New Carlisle, Ohio.



ARROW BRAND

Asphalt Ready Roofing.

Comes in rolls already supplied with gravel, and can be applied by any handy man. Free samples sent upon application.

ASPHALT READY ROOFING CO.,

Traders' Exchange Bld'g, Water St., near Pine, New York City.

California Privet

75,000 2-year, 2½ to 3 ft.

100,000 2-year, 18 to 24 in.

200,000 2-year, 2 to 2½ ft.

500,000 1-year, 12 to 18 in., branched

All the above grades have been transplanted and cut back, except one year. This gives good roots and bushy plants.

RIVER VIEW NURSERIES

Little Silver J. H. O'HAGAN New Jersey

THE NEW BLACKBERRY

WARD

*By Far the Best Market Blackberry Now
Before the Public.*

For description and price address either

CHAS. BLACK,

D. BAIRD & SON,

OR

Hightstown, N. J.

Baird, N. J.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries,

Fall 1903 and Spring 1904, offer the following
in Car Lots or Less

Apple 2 and 3 Year

Plum 1 and 2 Year strong on Japans

Peach, (100,000 40 Varieties)

Standard and Dwarf Pear, very fine

Cherry, 1 year 5-8 and all up 3 to 5
feet

Cherry, 1 year Sweets 6 to 8 feet
Branched and Whips

Carolina Poplars

Cut Leaved Maples

Catalpa and Black Locust Seedlings

Silver Maples

W. C. REED, Proprietor

VINCENNES,

INDIANA

1851 Knox Nurseries 1903

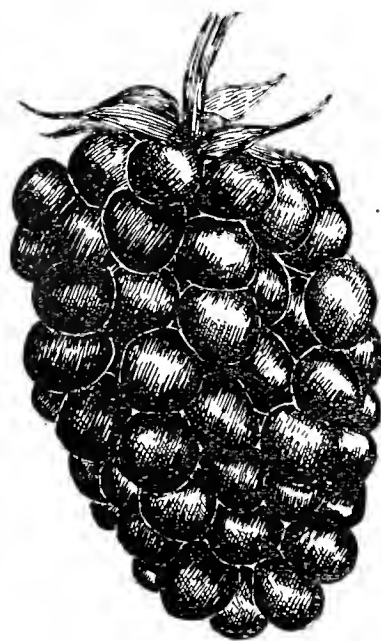
We offer for Fall 1903 a complete line of

NURSERY STOCK

And solicit your orders. We have a fine block of apple, 2-yrs., growing at Topeka, Kansas, and would like to sell the whole block. The block consists of the leading sorts and we would be pleased to give particulars to any prospective buyer. We also make a specialty of Cherry, one year. We still have some left of the smaller grades. Also have a nice lot of peach and 3-yr. Apple, Norway Spruce and Roses to offer, and a large number of Catalpa Speciosa Seedlings.

VINCENNES, INDIANA.

H. M. SIMPSON & SONS.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

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"The Smyrna Fig at Home and Abroad"

A PRACTICAL TREATISE ON FIG GROWING
BY GEO. C. ROEDING, FRESNO, CAL.

THIS book should be read by every up-to-date horticulturist, fruit farmer, and those contemplating planting an orchard for profit. This book shows wherein the fig problem in the United States is solved, and also gives facts and figures regarding fig-growing as a money-making project for all those seeking an investment in orchard farming.

PRICE 25 CENTS, POSTPAID

ELMIRE SEBIRE, Fils Aine, Ussy, Calvados, France

Grower and shipper of Nursery Stock: *Ornamentals*, trees and shrubs; *Evergreens*, *Conifers*, *Forest Trees*, for late fall delivery; also a limited stock left of *Pear*, and *Quince Fruit Stock Seedlings*.

Send for estimates to our sole American agents,

AUGUST ROLKER & SONS,

P. O. Box 752.

31 Barclay St., New York

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS.

RAFFIA FIBRE in Prime Nurserymen's Quality.

The Willadean Nurseries

OFFER FOR FALL 1904

Apples, Pears, Standard and Dwarf Plums, Cherry, Grape Vines, Small Fruit Plants, Rhubarb, Asparagus, Ornamentals, Shrubs, Herbaceous and Hardy Perennials.

Forest Tree Seedlings we have in quantities, over 50 kinds, nursery grown. Tree seeds we have in season in large quantities. Send us your list of wants. We can interest you. Trade list ready September 1st.

THE DONALDSON CO., Warsaw, Ky.

Successors to DONALDSON & GIBSON.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of

Beacon Building,

Highlands Nursery, N. C.

BOSTON, MASS.

GRAPE VINES

AND

Gurrant Plants

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.
QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.
Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.

HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

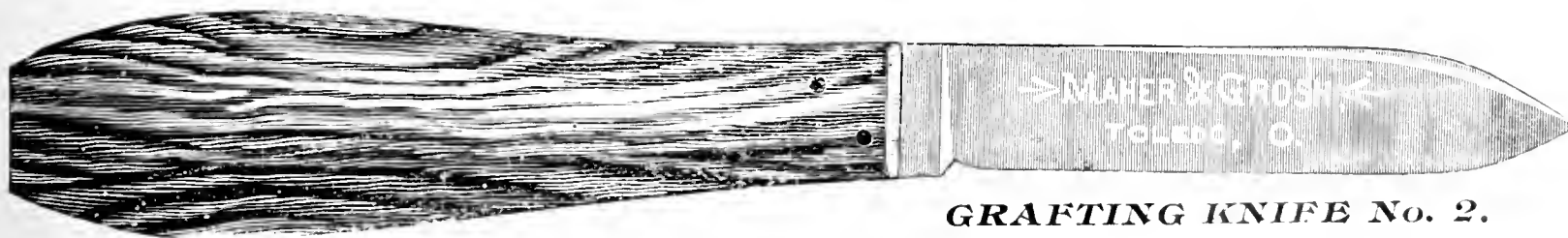
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



GRAFTING KNIFE No. 2.

Cut is exact size of our Grafting Knife No. 2. Sample, by mail, 20 cents. 6 for \$1.00. No. 1 has a "sheep foot" blade and is larger. Sample, by mail, 25 cents. 5 for \$1.00. Budding Knife, riveted in handle, 25 cts. 12 for \$2.25, postpaid. Pocket Budder, 35 cents. Pruning Knife, riveted in handle, 50 cents. 5 for \$2, postpaid. Pocket Pruner, 75 cents.

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

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Nurserymen's KNIVES

Hand forged. Razor steel. Warranted. Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and sent free to all who ask for one.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

HAVE TO OFFER

APPLE, CHERRY, PEACH
KEIFFER PEAR
(2 yr.)

SHADE TREES

JAPAN PEAR SEEDLING OSAGE CATALPA

GRAPE VINES BECHTEL'S FLOWERING CRAB

STARK BRO'S NURSERIES & ORCHARDS CO

Growers of General Nursery Stock

CARLOAD LOTS of Apple, Peach, Plum, Cherry,
Standard and Dwarf Pear, Grape, etc.

Particular attention called to large stocks of
APPLE SEEDLINGS
GRAPE VINES of the leading varieties
CURRANTS
GOOSEBERRIES
BUDED LILACS, finest new sorts
BECHTEL DOUBLE-FLOWERING Crab, etc.



GENERAL OFFICES, Nurseries, Packing Houses,
etc., LOUISIANA, MO. BRANCHES: Starkdale,
Mo., Huntsville, Ala., Fayetteville, Ark., Dans-
ville, N. Y., Atlantic, Iowa. Grape Nurseries,
Portland, Chautauqua Co., N. Y.

World's Fair, St. Louis, 1904.

WE OFFER

FOR FALL AND SPRING DELIV-
ERY THE FOLLOWING WELL
GROWN AND GRADED STOCK:

100,000 Apple, $\frac{3}{4}$ and up
200,000 Peach Trees, all grades
50,000 Pecan Trees
10,000 Cherry Trees
2,500 Evergreens
5,000 No. 1 Roses

*Send us a list of your wants.
We will do you good.*

Southern Nursery Company

WINCHESTER, TENN.

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WILLIS NURSERIES

OTTAWA, KANSAS.

Offers for the Fall of 1903,
a large general assortment of
CHOICE NURSERY STOCK,
including

100,000 APPLE,
Choice 2 yr. trees.

75,000 PEACH,

20,000 CHERRY,

150,000 GRAPES.

Correspondence Solicited.

Willis Nurseries.

OTTAWA, KANSAS.

When writing to Advertisers mention The National Nurseryman.

Grape Vines

Stark Grape Nurseries are in the heart of the famous Chautauqua Grape Belt, which produces the finest vines grown in the U. S. An immense stock of the leading sorts, at prices as low as those of any reputable grower. A complete general nursery stock; also **Southern Natural Peach Seed and VERMONT APPLE SEED.** **STARK BRO'S** Portland, N. Y., Louisiana, Mo.

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS** ❀ ❀ ❀ ❀

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.
Sole Representatives for the United States.

AGENCY MGR. WANTED

Must be Competent and thoroughly experienced
**NONE BUT HUSTLERS
NEED APPLY**
First-class references required. Force 500 to 1,000 agents. Salary liberal. **BETTER YOURSELF.** Address "Mutual" care National Nurseryman, Rochester, N. Y.

Trancon Brothers & D. Dauvesse's Nurseries
BARBIER & CO., SUCCESSORS
16 Route d'Olivet ORLEANS, France.

OUR GENERAL LIST OF

NURSERY STOCKS

Is just issued and may be had from our Agents
Messrs. KNAUTH, NACHOD & KUHNE,
13 William Street, NEW YORK
WRITE FOR IT!

Wood Labels for Nurserymen and Florists

BENJAMIN CHASE, DERRY, N. H.

TREE-BOX LUMBER

We are shipping to many of the largest nurseries all of their Tree-Box Lumber and they are **SAVING MONEY.**

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

We want to hear from you.

Write us today for prices, etc.

GOODWILLIE BROTHERS,

Saw Mills and Factory,
WAUSAU, Wis.

407 New York Life Bldg., Chicago, Ill.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

FALL OF 1903

SPRING OF 1904

MT. HOPE NURSERIES

ESTABLISHED 1869

A CHOICE STOCK OF APPLE TREES AND PEACH TREES

In all grades, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$, $\frac{1}{2}$ to $\frac{5}{8}$, 9-16 to $\frac{1}{2}$

ALSO A FULL LINE OF OTHER TREES AND SHRUBS.

Address, A. C. GREISA, LAWRENCE, KANSAS.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOPER SONS' MFG. CO.,

509 Arch Street, PHILADELPHIA, Pa.

POSITION WANTED A stenographer, familiar with the wholesale nursery business, would like a position where he could have some correspondence to handle, and also learn to superintend the filling of orders.

Address F., care of NATIONAL NURSERYMAN.

NORTH CAROLINA NATURAL PEACH PITS

Crop of 1903

350 Bushels left at reasonable price. Can ship promptly.
Price and freight rate given on application.

J. VAN LINDLEY NURSERY CO. - - Pomona, N. C.

ELBERTA

500,000 Peach, 250,000 Elberta
250,000 in Assortment, Viz.:

Champion, Crosby, Capt. Ede, Crawford, Heath
Cling, Mountain Rose, O. M. Free, Piquetts Late,
Salway and others. Good roots, good tops,
smooth, entirely healthy and true to label.

We have more trees growing than we have
cellar room for the coming Winter, hence we
will make close prices for car lot orders for Fall
shipment. Visit us, inquire about us.

Write for Prices.

Located three hours west from St. Louis on main lines of
Wabash and Chicago and Alton Railroads.

Address Nursery Dept.

Ortiz Fruit Farm

MEXICO, MO.

When writing to Advertisers mention The National Nurseryman.

California Seedling

— AND —

Grafted Peach Pits

FOR SALE IN CAR LOAL LOTS.

GEO. F. DITZLER,
Biggs, Butte County, Cal.

THE
AUTOMATIC
COPYING
BOOK

COPIES WHILE YOU WRITE

Simplest and best. Always ready; use any pen and paper. No press and no trouble. Prevents costly mistakes. Samples of work and endorsements free. Duplicating Books of all kinds Made to Order.

PERSHING & CO.,

142 Michigan Street, SOUTH BEND, IND.

4,000,000 PEACH TREES

Largest stock of Peach grown by
any one man in the United States.
Write me before you place your
order for Fall of 1903 and Spring
of 1904.

TENNESSEE WHOLESALE NURSERIES,

J. C. HALE, Proprietor.

Winchester, Tenn.

Nuts-Peaches-Nuts

- 20,000 Japan Walnuts, 4 inches to 12 feet.
- 20,000 Black Walnuts, 4 inches to 8 feet.
- 5,000 English Walnuts, 4 inches to 5 feet.
- 500 Grafted Japan Walnuts, 2 to 4 feet.
- 5,000 Butternuts, 4 to 15 inches.
- 50,000 Pecan Seedlings, 4 inches to 6 feet.
- 5,000 Pecan Grafts, 6 inches to 4 feet.
- 5,000 Pecan Seedlings (cut backs), 2 to 4 feet.
- 10,000 Spanish Chestnuts, 6 inches to 6 feet.
- 2,000 American Chestnuts, 6 inches to 6 feet.
- 6,000 Japan Chestnuts, 6 inches to 3 feet.
- 2,000 Grafted Chestnuts, 6 inches to 5 feet.
- 3,000 Almonds, 2 to 6 feet.
- 2,000 English Filberts, 2 to 5 feet.
- 150,000 One Year Peach.
- 100,000 June Bud Peaches.
- 10,000 June Bud Plums.

Also Apples, Cherries, Plums, Hardy Flowering Shrubs, Etc.
Write for prices to

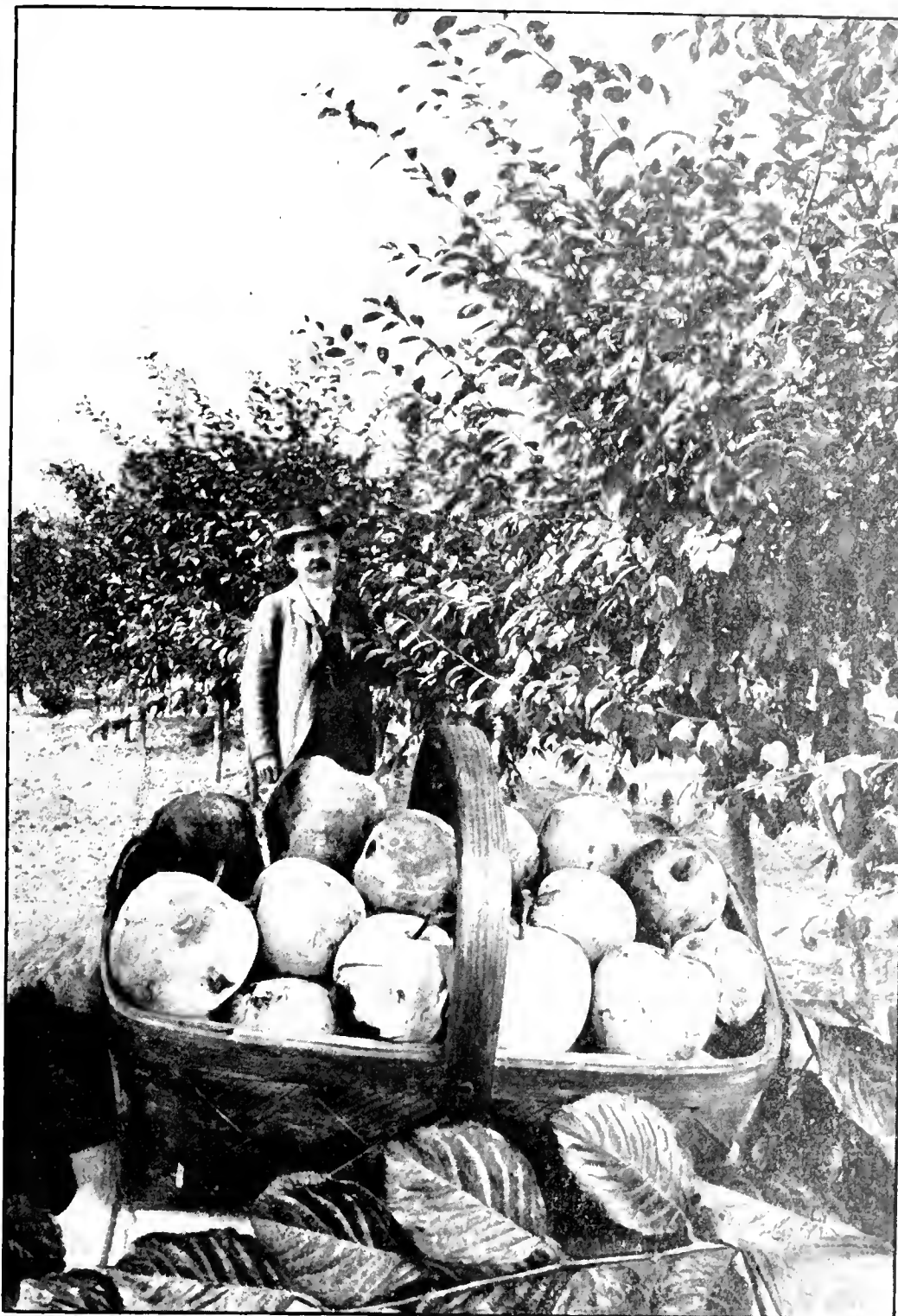
American Plant and Seed Co.

NASHVILLE, TENN.

When writing to Advertisers mention The National Nurseryman

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902.

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

APPLE TREES

Can Ship in 24 Hours Notice

NO FINER TREES EVER GROWN. WELL BRANCHED

	5 to 6 ft. 3-4 and all up	4 to 6 ft. 3-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 5 ft.		5 to 6 ft. 3-4 and all up	4 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 5 ft.
Autumn Strawberry.....	1,000	1,000	1,000	1,000	500	N. W. Greening.....	10,000	10,000	3,000	2,000	1,000
Alexander.....	400	400	350	400	200	Paradise Winter Sweet.....	1,000	500	500		
American Golden Russett.....	200	200	100	100	100	Pewaukee.....	3,000	1,000	500		
Ben Davis.....	10,000	10,000	10,000	10,000	5,000	Red Astrachan.....	1,000	1,000	1,000	1,000	
Baldwin.....	8,000	7,000	5,000	4,000	3,000	Rambo.....		200	200	100	
Bailey's Sweet.....	25	25	25			Rome Beauty.....	1,500	1,000	1,000	1,000	800
Bellflower.....	500	500	500	200		Ribston Pippin.....	50	50	50	50	50
Chenango Strawberry.....	50					Rolfe.....	300	100	100		
Cooper's Early White.....	50					Red Romanite.....	150	150	100	100	100
Coffelet Beauty.....	100	100	100	100	100	Roxbury Russett.....	200	200	100	100	100
Cooper's Market.....	75	75	75	75	75	Rawles Janet.....	1,000	200	50	50	
Dominie (Winter Rambo).....	600	200	100	100		Roman Stem.....	100	100	100	100	
Early Harvest.....	500	300				Rhode Island Greening.....	800	1,000	500	200	100
Fameuse.....	1,200	800	300	200		Stayman's Wine Sap.....	2,000	1,000	1,000	1,000	
Fallawater.....	500	400	300	150	100	Sweet Bough.....	200	200	200	200	200
Florence.....	225	175	75			Sweet June.....	50	150			
Flora Bellflower.....	800	500	500	200	100	Summer Rambo.....	200	200	200	200	200
Golden Sweet.....	100	75	100	50	50	Scott's Winter.....		1,500	500	500	
Gravenstein.....	300	500	500	400	200	Smith's Cider.....	500	500	500		
Grimes Golden.....	3,000	3,000	3,000	3,000		Salome.....			300	300	300
Gano.....	5,000	5,000	5,000	5,000	2,000	Shackelford.....	600	300	100		
Haas.....	500	200	100	100	100	Stark.....	2,000	2,000	1,000	1,000	500
Hubbardston's Nonesuch.....				50	50	Tulpehocken.....	500	200	200	200	100
Indian.....	500	200	100	100	100	Tolman's Sweet.....	600	600	600	600	600
Jonathan.....		1,000	1,000	500	500	Wagner.....	500	500	500	500	500
King.....	1,000	1,000	500	500	100	Willow Twig.....	1,000	500	300		
Lawyer.....	1,000					Wine Sap.....	4,000	2,000	2,000	1,000	
Lowell.....	50	20	25	25	25	Wealthy.....	200	1,000	1,000	1,000	500
Limber Twig.....	75	50	25			Wolf River.....	200	300	100	100	
Lankford Seedling.....	200	300	300	200		Walbridge.....	400	100	100		
Longfield.....	150	50	50	50	50	Yellow Transparent Crabs.....	4,000	2,000	2,000		
Maiden's Blush.....	1,000	1,000	1,000	1,000	1,000	Transcendent.....	600	200	200		
Monmouth Black Twig.....	4,000	1,000				Golden Beauty.....	300	100	100		
Missouri Pippin.....	2,000	1,000	500	500	300	Martha.....	250	150	100		
Minkler.....	400	100				Hyslop.....	200	800	200	200	200
McIntosh Red.....	2,000	1,000	200	100		Whitney.....	400	200	200		
Mann.....	300	100	50								
Northern Spy.....	1,000	1,000	500	300							

June Budded Peach Trees

June Buds, 18 in. and up.
June Buds, 12 to 18 in.
June Buds, 8 to 12 in.

PRICE OF PEACH, ONE YEAR FROM BUD

1 yr., extra, $\frac{3}{4}$ to 1 in., 5 to 8 ft., branched.
1 yr., $\frac{3}{4}$ to $\frac{1}{2}$, 5 to 6 ft., branched extra.
1 yr., $\frac{1}{2}$ to $\frac{3}{4}$, 4 to 6 ft., branched, No. 1.
1 yr., $\frac{1}{2}$ to $\frac{3}{4}$, 4 to 5 ft., branched.
1 yr., $\frac{3}{4}$ to $\frac{1}{2}$, 3 to 4 ft., more or less branched.

CHERRY ON MAZZARD

First-class, 5 to 6 ft., $\frac{3}{4}$ and up, two year.
First-class, 4 to 6 ft., $\frac{3}{4}$ to $\frac{1}{2}$, " "
First-class, 4 to 6 ft., $\frac{1}{2}$ to $\frac{3}{4}$, " "
First-class, 4 to 5 ft., $\frac{1}{2}$ to $\frac{3}{4}$, " "
First-class, 3 to 4 ft., " "
Varieties: Early Richmond and Montmorency
BALDWIN CHERRY, Twice the price of
standard stock.

ASPARAGUS

Two and Three Year.

Columbian Mammoth White,
Donald's Elmira,
Palmetto,
Barr's Mammoth,
Conover's Colossal,

KIEFFER PEAR TREES

PEAR TREES—Two Years, Grafted on
French Pear Seedlings, Whole Roots.

Two years, $\frac{3}{4}$ and up, 5 to 7 ft.
Two years, $\frac{3}{4}$ to $\frac{1}{2}$, 5 to 6 ft., well branched.
Two years, $\frac{1}{2}$ to $\frac{3}{4}$, 4 to 5 ft., well branched.
Two years, $\frac{1}{2}$ to $\frac{3}{4}$, 4 to 5 ft., well branched.
Two years, $\frac{3}{4}$ to $\frac{1}{2}$, 3 $\frac{1}{2}$ to 4 $\frac{1}{2}$ ft.
Two years, 3 to 4 feet, whips.
One year, 2 to 3 feet.

GRAPE VINES

Two Year, No. 1.

Concord, Salem Delaware,
Moore's Early, Martha Agawam,
Niagara, Catawba, Lady.
Poeklington, Champion, Diamond.
Brighton, Wyoming,
Carolina Poplars, 10 to 20 ft.
Carolina Poplars, 8 to 10 ft.
Sugar Maples, 10 to 12 ft.
Sugar Maples, 8 to 10 ft.
Norway Maples, 10 to 12 ft.
Norway Maples, 8 to 10 ft.
Black Walnuts, 6 to 8 ft.
Black Walnuts, 5 to 6 ft.

COMPLETE LIST OF STRAWBERRY PLANTS

SEND FOR NEW WHOLESALE SURPLUS PRICE LIST AT ONCE.

J. G. Harrison & Sons,

BERLIN, MD.



DECEMBER, 1903

Continental Nurseries



*The largest and most complete
Nursery plant in the United States.*

*We have a full line of Nursery
Stock the coming year for the whole-
sale trade.*

*We should be pleased to receive
your list for estimate.*

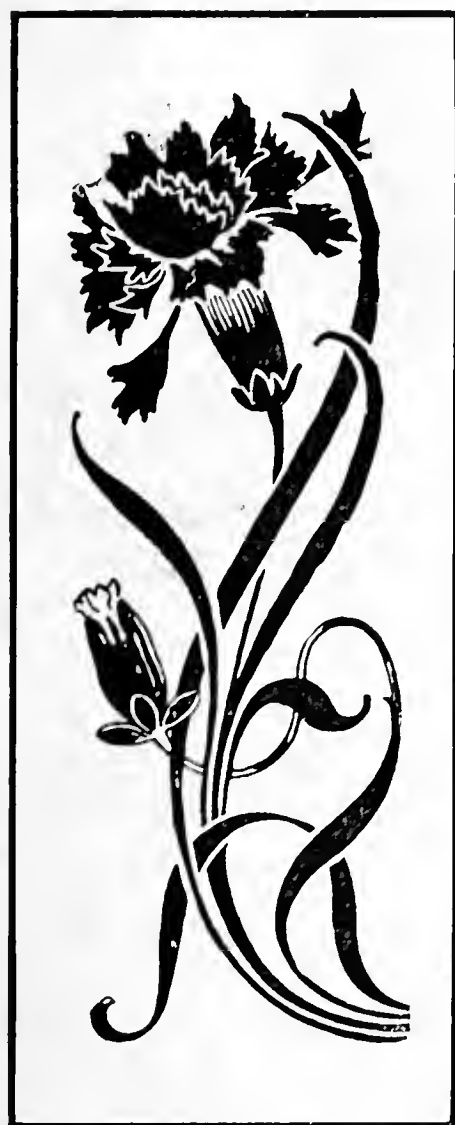


Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

Offer one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds



One million Peach Trees, grown on bank of Lake Erie. No healthier, better trees can be produced.

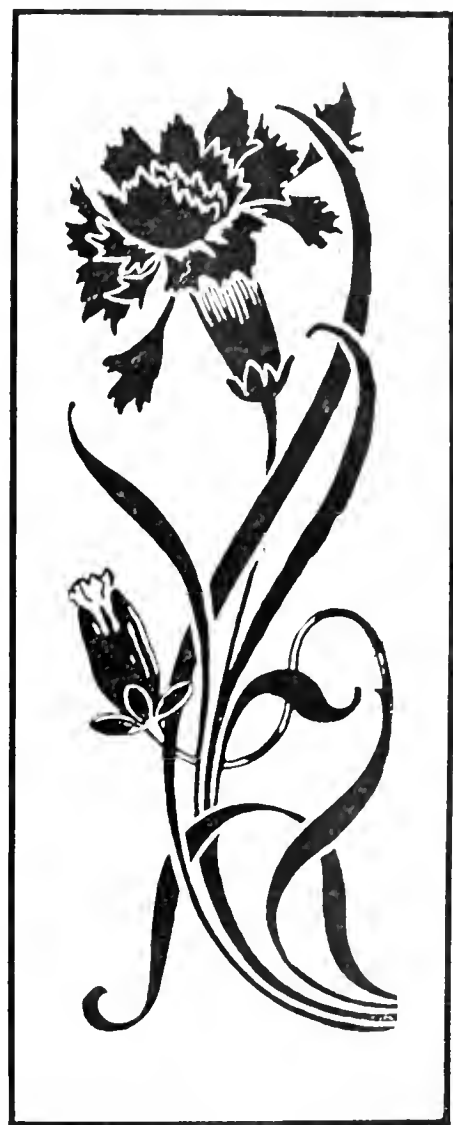
Fine blocks 2 and 3 year Standard and Dwarf Pear, Apple, Cherries and Plums.

Call especial attention to our **Small Fruit Department**—immense stock all leading varieties, highest grade, packed right. Currants, Gooseberries, Blackberries, Raspberries, Grape Vines, Etc.

Roses — Largest acreage field-grown plants in the world.

Clematis—Large flowered and Paniculata, Ampelopsis Veitchii in large supply with all other leading varieties vines and shrubs. Ornamental Hedge Plants, California Privet, Japan Quince, Berberry Thunbergii, Purple and Green Leaf, Tartarian Honeysuckle, etc.

Direct importations from leading Holland, Belgium and French growers of Chinese Azaleas, Palms, Bulbs, etc.



Let us estimate on your list of wants. Special rates on car lots for fall shipment or stored for spring delivery. Personal inspection cordially invited : : : : : : : : : : :

CATALOGUES AND PRICE-LISTS FREE

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs

Roses

Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.

MOUNT HOPE NURSERIES,
Rochester, N. Y.

Established 1840. Mention this paper.

LIST OF SPECIAL SURPLUS

The following list consists of some few items of which we have rather large supplies that we desire to reduce quickly. The stock is of our best grade and quality, but prices for considerable quantities, will be made unusually low until surplus is reduced:

ROSES. No. 1, on own roots.

Caprice,
Jules Margottin,
La Reine,
La France,
Madame Plantier.

CLEMATIS. 2 yrs., strong.

Coccinea,
Crispa,
Jackmanni,
Paniculata,
Mme. Baron Veillard.

VINES. Strong, field - grown.

Akebia Quinata,
Celastrus Scandens, 3 yrs. strong

HERBACEOUS PLANTS.

Achillea, "The Pearl"
Helianthus Maximiliana,
Heliopsis Pitcheriana.
Iris, German,
Iris, Kaempferi,
Rudbeckia, Golden Glow.

ORNAMENTALS.

Alder, European, 8-10 ft.
Ash, European, 10-12 ft.
Catalpa Speciosa, 8-9 ft.
Elder, Golden, 3-4 ft.
Elm, American, 10-12 ft.
" American, 8-10 ft.
" English, 10-12 ft.
Filbert, (Hazel), common, 5-6 ft.
Hydrangea Pan. Grand., 18-24 in.
Hydrangea Tree Form, 3-4 ft.
Judas Tree, 2-3 ft.
Maple, Ash-leaved, 8-10 ft.
" Ash leaved, 6-8 ft.
" English, 6-8 ft.
" English, 5-6 ft.
" Weir's Cut-leaved, 8-10 ft.
" Weir's Cut-leaved, 6-8 ft.
Oak, English, 6-7 ft.
" English, 5-6 ft.
" Scarlet, 5-6 ft.
" Turkey, 5-6 ft.
Poplar, Carolina, 8-10 ft.
" Lombardy, 8-10 ft.
Strawberry Tree, 5-6 ft.

Complete price-list mailed upon application. Good assortment of old and new varieties.

JACKSON & PERKINS CO.

NEWARK, - New York.

HYDRANGEAS

SURPLUS OF FINE BUSHY PLANTS

4 TO 5 FEET

Low to move quickly

Andorra Nurseries, Chestnut Hill, Phila.

BIG FRUIT TREES WANTED

*Apples, Cherries, Peaches,
Plums, Quinces, Pears,
and Apricots* 1 1/4 inches and up.

Crimson Ramblers, heavy field-grown,
four to six feet.

THOMAS MEEHAN & SONS, Inc.
Germantown, Pa.

For Sale Cheap

Standard Pears 4 to 5 ft., 5/8 grade; Standard Pears 2 to 4 ft., 1/2 inch grade; Standard Apples 2 to 4 ft. 1/2 inch grade; Standard Apples 4 to 5 ft. 5/8 grade; European Plums 2 to 4 ft. 1/2 inch grade. If you can use any of the above stock let me know about how many you can use and which grades, and I will quote you prices that will secure your order. Address **D. H. PATTY**, Nurseryman, Geneva, N. Y.

When writing to Advertisers mention The National Nurseryman.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

When writing to Advertisers mention The National Nurseryman.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

FOR SALE A lot of canvasser's Plate Books in first-class condition. A bargain. For further information, price, etc., write to

The Hunt Manufacturing Co.

NEWARK, N. Y.

STANDARD POTS

Do you wish to buy a Pot equal to the best? Try us with a sample order or write for testimonials to

KELLER BROS.,

213-23 Pearl St.,

Norristown, Pa.

Beechwood Nurseries

I have a full line of PEACH TREES (all grades) in surplus; also 500 fine 3-year Ben Davis to offer.

ALL TREES FUMIGATED.

C. L. LONGSDORF

FLORADALE, PA



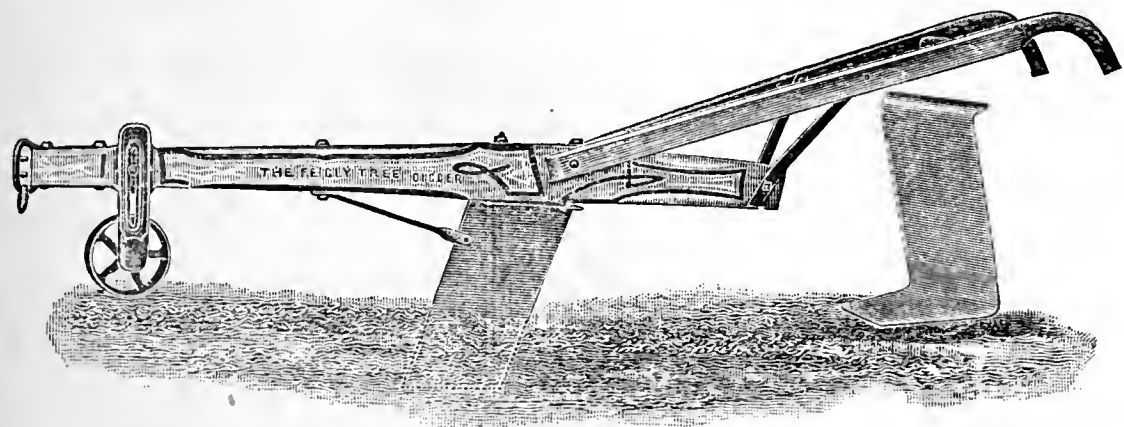
Century Sprayer.

Best barrel sprayer made. Capacity and adaptability to suit all requirements. These are features: Its valves are bronze balls. Cylinder and plunger are brass. Indestructible packing crimps. Large air chamber. Agitator that agitates. Its low

PRICE PLEASES

We make twenty styles sprayers. Every need specially met with Hand, Bucket, Knapsack, Power Sprayers. Spraying catalog free. Booklet on insects and plants and fruit diseases 10c.

THE DEMING CO., Salem, O.
Lenton & Hubbell, Western Agts
Chicago, Ill.



D. FEIGLY, Medway, O. Sole Agent.

Send for Circular.

Peach Trees Full assortment of varieties, lalseiz.s
Kieffer Pear 2-year, 3/4 up, on Imported Stocks.
Apple 2-year, 3/4 up and 5/8 to 3/4

Ben Davis, Gano, York Imperial, Baldwin.

Above surplus in carloads or smaller quantities for winter or early spring shipments.

All grown on Missouri River upland, 50 to 250 ft. above the flood line.

WRITE FOR PRICES.

New Haven Nurseries

NEW HAVEN, Mo.

P. OUWERKERK

1123 SUMMIT AVENUE

JERSEY CITY, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnoleas, Box Trees, Fancy Conifers, Hydrangeas and Shrubs our specialities at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

WANTED MAN with experience in handling collections in retail nursery business. Mention references and salary.

COLLECTOR,

In care of NATIONAL NURSERYMAN.



THE ARNDT
TREE PROTECTOR

A perfect, inexpensive protection against all creeping and crawling insects. Agents wanted everywhere.

WRITE AT ONCE **Michigan Cut Flower Exchange**

WM. DILGER, Mngr., Sole Distributors,
DETROIT, MICH., U. S. A.

RAFFIA

BEST grades of Madagascar Raffia for Nurserymen.

Orders for bale (225lbs.), or more from stock or for direct import Write for prices.

McHUTCHISON & CO., 218 Fulton St., NEW YORK.

WANTED A MAN with some little capital who has had experience in running nursery salesmen, to work up and run a force of salesmen either on commission or for a share of the profits.

Address **D. H. PATTY**

Nurseryman.

Geneva, N. Y.

THE IMPROVED
FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

D. FEIGLY, Medway, O. Sole Agent.

Send for Circular.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDELS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of
**Fruit and
Ornamental**
stock for fall
trade.

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubbery
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

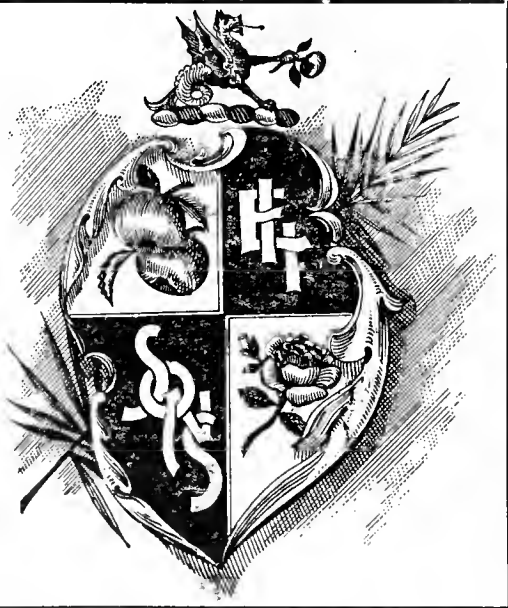
THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

Office, Cutler Building

Nurseries at Brighton

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

**Offer for
Fall
Shipment**

**Apple, Pear, Plum
and Peach**

BY THE CARLOAD.

We will equalize freights with the principal Eastern shipping points, and will guarantee to interest you with our prices. Write us.

WANTED FOREMAN FOR NURSERY. Must thoroughly understand propagating all kinds of fruits, ornamental stock, shrubbery, etc. Must have varied experience, capable of handling a large force of men. None but thoroughly first-class, sober, industrious man need apply. Wages \$100 per month.

MAYFIELD
NURSERIES

L. L. MAY & CO.,

ST. PAUL,
MINN.

**APPLE
TREES**

2 and 3 years old, smooth, well-grown, fine stock
Complete list of varieties. Grades mostly $\frac{3}{4}$ and up,
and $\frac{5}{8}$ to $\frac{3}{4}$.

Will make special low prices in car lots or less for
fall delivery. Correspondence invited.

South St. Louis Nurseries,

5,600 GRAVOIS AVE., ST. LOUIS, MO.

JAPANESE SPECIALTIES

In NURSERY STOCK, BULBS, etc.,
grown in our own Nurseries in Yokohama
and Tokio, Japan.

MAPLES, CONIFERS,

ORNAMENTAL TREES AND SHRUBS,

TREE AND HERBACEOUS PAEONIES,

IRIS KÄMPFERII, the latest varieties,

LILIES, ETC.,

CHESTNUT AND WALNUT SEED.

Prices free ex cars New York, duty included.
Sound arrival guaranteed. Write for our trade list.

SPECIAL PRICES FOR LARGE QUANTITIES and
hand colored plates for inspection on demand.

Suzuki & Iida

31 Barclay St., NEW YORK.

21-35 Nakamuramachi, YOKOHAMA.

When writing to Advertisers mention The National Nurseryman.

IF YOU CONTEMPLATE BUILDING

Greenhouses, Rose Houses, Carnation Houses, Etc.

our facilities are unequalled. We submit plans which embrace the latest improvements. Estimates furnished for Houses erected with our patent iron construction, or for the material only, ready to erect. When the latter is ordered we supply, free of charge, plans for guidance of local builders.

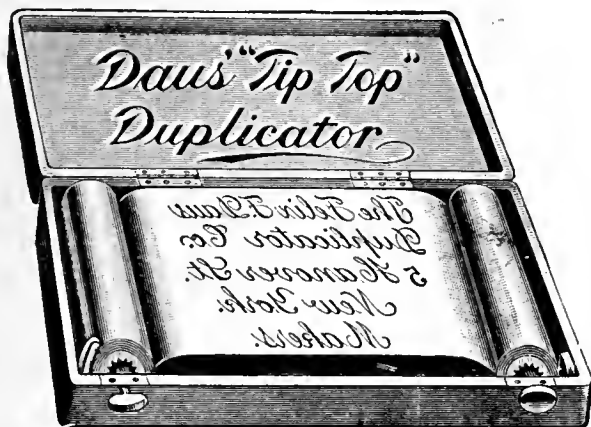
We shall be pleased to receive your inquiries either for completed houses; or for the iron or cypress material also any other kind of material which enters into a greenhouse structure.

We have had fifty years experience which is at your service for the asking.

Greenhouse Construction Catalogue, also Greenhouse Heating and Ventilating Catalogue sent from our New York Office on receipt of five cents postage for each

LORD & BURNHAM COMPANY

New York Office, St. James Bldg., B'way & 26th St.
General Office & Works, Irvington-on-Hudson, N. Y.



WHAT IS "TIP-TOP"? ... DAUS'

TO PROVE

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making 100 copies from Pen-written and 50 copies from Type-written original we are willing to send a complete "Duplicator" **without deposit on TEN DAYS trial.**

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33⅓ per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

SHENANDOAH

THE GREAT NURSERY CENTER OF THE WEST

The Mount Arbor Nurseries have grown wonderfully the past few years—the business and plant have more than trebled in size—so that now we are able to

Offer to the Trade One of the Very Largest and Most Complete Lines of General Nursery Stock on the Market

Assorted Car Lots a Specialty

Private R. R. Switch to Our

Large Storage Buildings . . .

Shipments Made at Any Time

Winter Price List out Early in December

Correspondence and Inspection

Invited. Send Us Your

List of Wants

Mount Arbor Nurseries

—Established 1875—

E. S. Welch, Prop., Shenandoah, Iowa

When writing to Advertisers mention The National Nurseryman.



**THE
ALTON'S
1904
COWBOY
GIRL**

TRADE-MARK.

"Sequel to the Fencing Girl."

Copyright, 1903, by Chicago & Alton Railway.

ART CALENDAR

Four graceful poses from life; figures ten inches high, reproduced in colors. Highest example of lithographic art.

"THE ONLY WAY"

to own one of these beautiful calendars is to send twenty-five cents with name of publication in which you read this advertisement, to GEO. J. CHARLTON, Gen'l Passenger Agent, Chicago & Alton Railway, CHICAGO, ILL.

The best railway line between CHICAGO, ST. LOUIS, KANSAS CITY and PEORIA. Take the "Alton" to the St. Louis World's Fair, 1904.

BRIDGEPORT NURSERIES

Grow one of the most complete lines of Hardy Nursery Stock in the country, and have for

FALL 1903 AND SPRING 1904

In quantities to suit customers — CAR-LOAD LOTS, or LESS, at prices that will interest you.

Apple
Plum
Peach
Grapes
Gooseberries
Raspberries

C. Poplar
Norway Maple
Catalpa
Chestnuts
Shrubs
Roses

Pear
Cherry
Quince
Currants
Strawberries
Blackberries

Silver Maple
Hard Maple
Box Elder
Evergreens
Vines
Etc.

APPLE SEEDLINGS

Mariana Plum Stocks.

Imported Seedlings.

APPLE AND PEAR GRAFTS

POMONA—Currant the most profitable.

SPADES—The BEST and CHEAPEST.

EXCELSIOR (baled). The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE
Cheaper, and far superior to Moss.

Our STORAGE and SHIPPING facilities are unsurpassed.

Trade-list ready about September 1st.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

Trade Winners, We Have Them

Apple, $\frac{3}{4}$ in. and up, 5 to 7 feet. Apple, $\frac{3}{4}$ in. to $\frac{1}{2}$ in., 5 to 6 feet.
" $\frac{1}{2}$ in. to $\frac{3}{4}$ in., 4 to 5 feet. " 7-16 to $\frac{1}{2}$ in., 3 to 4 feet.

Heavy on Ben Davis, York Imperial, Baldwin, Gano, Wine
Sap, M. B. Twig, and other leading sorts.

PEARS—A fine lot of Garber, Keiffer and Clapps' Favorite in the two upper grades.

PLUM ON PEACH, one year, $\frac{3}{8}$, $\frac{1}{2}$ to $\frac{5}{8}$, 7-16 to $\frac{1}{2}$. Varieties, Abundance, Burbank, Wickson, German Prune, Duans Purple,
Bradshaw, and a few others.

Car load lots a specialty, let us figure on your want list for this fall and next spring. Correspondence solicited.

Peach, $\frac{3}{4}$ and up. Peach, 9-16 to $\frac{5}{8}$. Peach, $\frac{1}{2}$ to 9-16
Peach, 7-16 to $\frac{1}{2}$ Peach, $\frac{3}{8}$ to 7-16.

Heavy on Elberta, Beers Smock, O. M. Free, Salway, and
other leading sorts.

The Village Nurseries

HARNEDSVILLE, PENNA.

Fruit Stocks and Seeds

Not nearly enough to supply the demand. Write immediately if you contemplate
purchasing. Mahaleb, cherry and apple seed is already exhausted. Here is what
we offer:—

STOCKS

APPLE, French PLUM, Myrobolan
" Paradise " Mariana
CHERRY, Mahaleb PEAR, Kieffer
" Mazzard " French
QUINCE, MANETTI ROSE

SEEDS

PEACH
MYROBOLAN PLUM
MAZZARD CHERRY
FRENCH PEAR
KIEFFER PEAR
QUINCE

Some Specials

HYDRANGEA PANICULATA GRANDIFLORA

VIBURNUM PLICATUM. The true Japan variety

CALIFORNIAN PRIVET. All sizes

OAKS. Largest stock in country

PERENNIALS. Choice stock of the more popular kinds

RAFFIA. The famous RED STAR brand. Also dyed in ten colors

We also offer a very large stock of seedlings and one and two year old shrubs.
These are exceptionally fine and especially suitable for planting in nursery rows.
Write for our new trade-list "Fall 1903."

THOMAS MEEHAN AND SONS, INC. & DRESHERTOWN, PENNA.

FALL OF 1903

SPRING OF 1904

MT. HOPE NURSERIES

ESTABLISHED 1869

A CHOICE STOCK OF APPLE TREES AND PEACH TREES

In all grades, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$, $\frac{1}{2}$ to $\frac{5}{8}$, 9-16 to $\frac{1}{2}$

ALSO A FULL LINE OF OTHER TREES AND SHRUBS.

Address, A. C. GREISA, LAWRENCE, KANSAS.

TWINES

We manufacture every variety of Twines and Ropes used by the Nurserymen in this country, and would be pleased to have you write us for samples and prices.

HOOVER SONS' MFG. CO.,

509 Arch Street, PHILADELPHIA, Pa.

POSITION WANTED

A stenographer, familiar with the wholesale nursery business, would like a position where he could have some correspondence to handle, and also learn to superintend the filling of orders.

Address F., care of NATIONAL NURSERYMAN.

NORTH CAROLINA NATURAL PEACH PITS

Crop of 1903

350 Bushels left at reasonable price. Can ship promptly.
Price and freight rate given on application.

J. VAN LINDLEY NURSERY CO. - - - Pomona, N. C.

CHESTNUTS

Am. Sweet and Spanish 8000. Very fine 1yr. transplants mostly well branched. Fine roots. 4 to 6 feet, 3 to 4 feet, 2 to 3 feet.

Dormant Buds of Combale, Paragon,
Dager, Numbo, Ridgely Alpha Coe.
Killen, Kent and McFarland.

On strong, transplanted stocks. Can dig fresh and ship promptly any time after November 1st. We also have a good stock of Budded and Grafted Pecans, Chestnuts, Chinquepins, etc.

Write for my special prices.

THE FLORIDA NUT NURSERIES

J. F. JONES, Mgr.

MONTICELLO, - - - FLORIDA.

200 Bsh. fine natural Peach seed FOR SALE

IHLOFF NURSERY

OKEENE, - - - OKLA.

SURPLUS

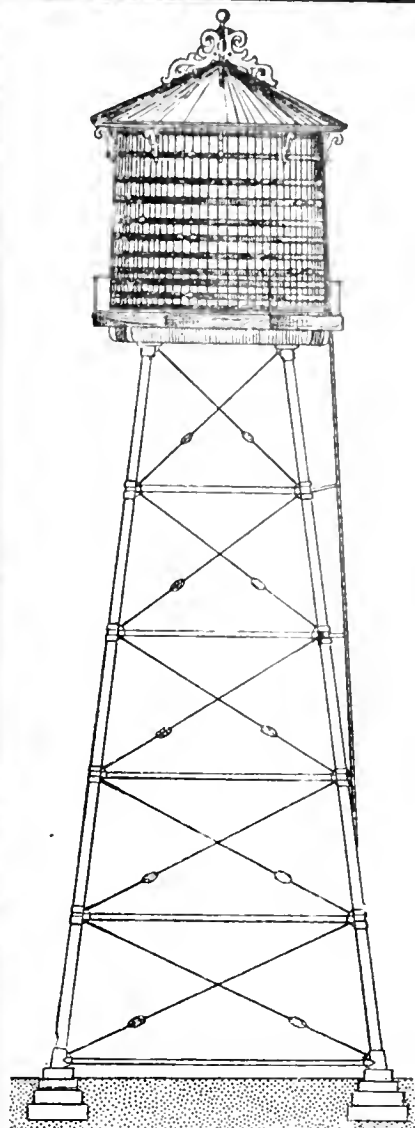
AMERICAN ELMS

1 inch to 3 inch caliper.

PIN OAK

8 feet high.

H. N. HOFFMAN, Elmira, New York



"Absolutely safe and reliable. Ask your friends"

A LEANING TOWER

is one of the architectural curiosities of the world, but it is not

A Caldwell Tower

Built of the best mild steel, strength and rigidity are its essential features. It will not warp, bend or rot like wood. Easy to erect and when in place it is up to stay. It will last a lifetime, needing no repairs.

May we send you our Price List?

W. E. CALDWELL CO.,
LOUISVILLE, KY.

**THE
AUTOMATIC
COPYING
BOOK**

COPIES WHILE YOU WRITE

Simplest and best. Always ready; use any pen and paper. No press and no trouble. Prevents costly mistakes. Samples of work and endorsements free. Duplicating Books of all Kinds Made to Order.

PERSHING & CO.,

142 Michigan Street, SOUTH BEND, IND.

4,000,000 PEACH TREES

Largest stock of Peach grown by any one man in the United States. Write me before you place your order for Fall of 1903 and Spring of 1904.

TENNESSEE WHOLESALE NURSERIES,

J. C. HALE, Proprietor.

Winchester, Tenn.

WILLOWDALE NURSERIES

WE offer for Spring a large stock of Apples and Peaches in different grades. American Chestnuts, Butternuts, American Elms, White Dogwoods, Maples, Oaks, Poplars, Salisburias, Yellow Locusts, Evergreens and Shrubbery.

Many varieties of Deciduous Shade Trees can be furnished in large sizes, from 3 to 5 inch caliper. A fine stock of 2-year Osage and 2-year Asparagus.

RAKESTRAW & PYLE
KENNETT SQUARE, PA.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

HAVE TO OFFER

APPLE, CHERRY, PEACH
KEIFFER PEAR
(2 yr.)

SHADE TREES

JAPAN PEAR SEEDLING OSAGE CATALPA

GRAPE VINES BECHTEL'S FLOWERING CRAB

WE OFFER

FOR FALL AND SPRING DELIV-
ERY THE FOLLOWING WELL
GROWN AND GRADED STOCK:

100,000 Apple, $\frac{3}{4}$ and up
200,000 Peach Trees, all grades
50,000 Pecan Trees
10,000 Cherry Trees
2,500 Evergreens
5,000 No. 1 Roses

*Send us a list of your wants.
We will do you good.*

Southern Nursery Company
WINCHESTER, TENN.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries,

all 1903 and Spring 1904, offer the following
in Car Lots or Less

Apple 2 and 3 Year

Plum 1 and 2 Year strong on Japans

Peach, (100,000.40 Varieties)

Standard and Dwarf Pear, very fine

Cherry, 1 year 5-8 and all up 3 to 5
feet

Cherry, 1 year Sweets 6 to 8 feet
Branched and Whips

Carolina Poplars

Cut Leaved Maples

Catalpa and Black Locust Seedlings

Silver Maples

W. C. REED, Proprietor

VINCENNES, INDIANA

1851 Knox Nurseries 1903

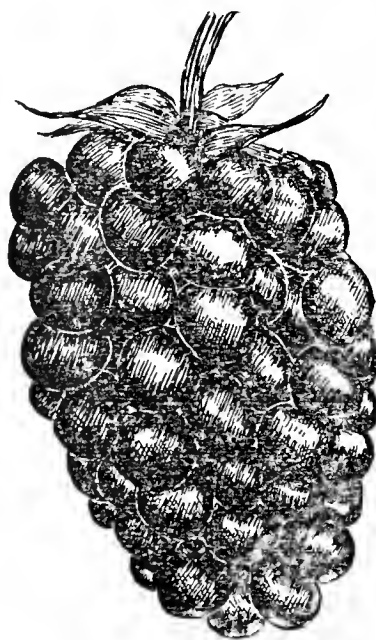
We offer for Fall 1903 a complete line of

NURSERY STOCK

And solicit your orders. We have a fine block of apple, 2 yrs., growing at Topeka, Kansas, and would like to sell the whole block. The block consists of the leading sorts and we would be pleased to give particulars to any prospective buyer. We also make a specialty of Cherry, one year. We still have some left of the smaller grades. Also have a nice lot of peach and 3-yr. Apple. Norway Spruce and Roses to offer, and a large number of Catalpa Speciosa Seedlings.

VINCENNES, INDIANA.

H. M. SIMPSON & SONS



STRAWBERRY and RASPBERRY plants
of all the new and old sorts in large
or small quantity.

PREMO DEWBERRY. No one can afford
to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG
BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We
have the finest lot of June budded
Peach we ever saw grow, also t.
general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

"The Smyrna Fig at Home and Abroad"

A PRACTICAL TREATISE ON FIG GROWING
BY GEO. C. ROEDING, FRESNO, CAL.

THIS book should be read by every up-to-date horticulturist, fruit farmer, and those contemplating planting an orchard for profit. This book shows wherein the fig problem in the United States is solved, and also gives facts and figures regarding fig-growing as a money-making project for all those seeking an investment in orchard farming.

PRICE 25 CENTS, POSTPAID

ELMIRE SEIRE, Fils Aine,
Ussy, Calvados, France

Grower and shipper of Nursery Stock: *Ornamentals*, trees and shrubs; *Evergreens*, *Conifers*, *Forest Trees*, for late fall delivery; also a limited stock left of *Pear*, and *Quince Fruit Stock Seedlings*.

Send for estimates to our sole American agents,

AUGUST ROLKER & SONS,

P. O. Box 752. 31 Barclay St., New York

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS

RAFFIA FIBRE in Prime Nurserymen's Quality.

The Willadean Nurseries

OFFER FOR FALL 1904

Apples, Pears, Standard and Dwarf Plums, Cherry, Grape Vines, Small Fruit Plants, Rhubarb, Asparagus, Ornamentals, Shrubs, Herbaceous and Hardy Perennials.

Forest Tree Seedlings we have in quantities, over 50 kinds, nursery grown. Tree seeds we have in season in large quantities. Send us your list of wants. We can interest you. Trade list ready September 1st.

THE DONALDSON CO., Warsaw, Ky.

Successors to DONALDSON & GIBSON.



ARDY Native American Rhododendrons and, Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,
Proprietor of Beacon Building,
Highlands Nursery, N. C. BOSTON, MASS.

GRAPE VINES

AND

Currant Plants

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.

Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.

HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

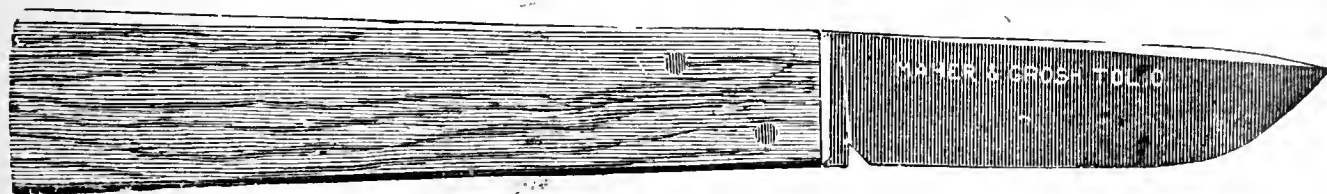
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2 25.
BUDDING KNIFE with folding blade, No. 98. By mail 35 cents; 6 for \$1.75.
GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.
SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

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Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

Grape Vines

Stark Grape Nurseries are in the heart of the famous Chautauqua Grape Belt, which produces the finest vines grown in the U. S. An immense stock of the leading sorts, at prices as low as those of any reputable grower. A complete general nursery stock; also **Southern Natural Peach Seed and VERMONT APPLE SEED.** **STARK BRO'S** Portland, N. Y., Louisiana, Mo

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS** ❁ ❁ ❁ ❁

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.
Sole Representatives for the United States.

AGENCY MGR. WANTED

Must be Competent and thoroughly experienced
**NONE BUT HUSTLERS
NEED APPLY.**
First-class references required. Force 500 to 1,000 agents. Salary liberal. **BETTER YOURSELF.** Address "Mutual" care National Nurseryman, Rochester, N. Y.

Trancon Brothers & D. Dauvesse's Nurseries
BARBIER & CO., SUCCESSORS
16 Route d'Olivet ORLEANS, France.

OUR GENERAL LIST OF

NURSERY STOCKS

Is just issued and may be had from our Agents

Messrs. KNAUTH, NACHOD & KUHNE,
13 William Street, NEW YORK
WRITE FOR IT!

Wood Labels for Nurserymen and Florists

BENJAMIN CHASE, DERRY, N. H.

TREE-BOX LUMBER

We are shipping to many of the largest nurseries all of their Tree-Box Lumber and they are SAVING MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

We want to hear from you.

Write us today for prices, etc.

GOODWILLIE BROTHERS,

Saw Mills and Factory,
WAUSAU, WIS.

407 New York Life Bldg., Chicago, Ill.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

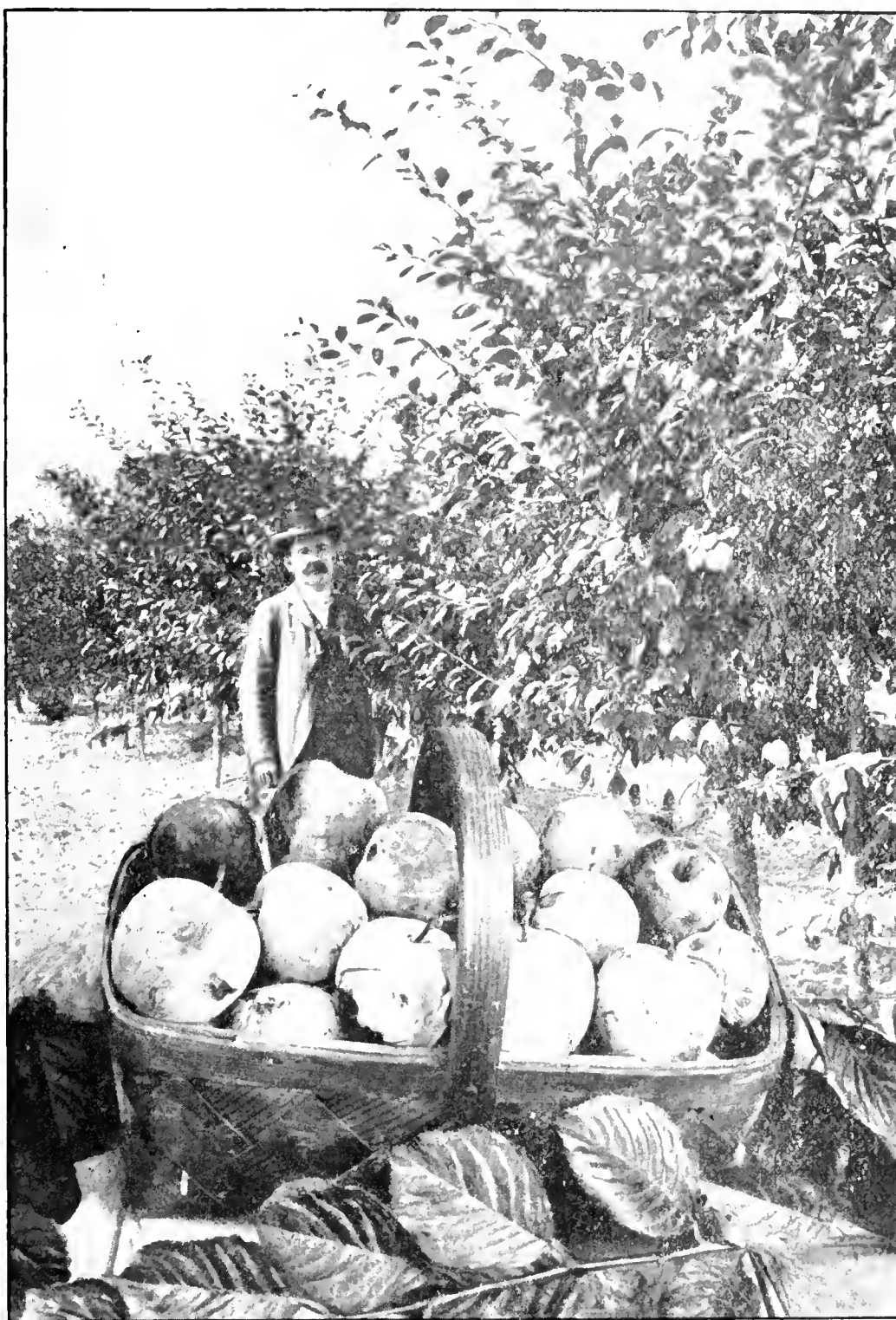
Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

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THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

*The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty*



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

*Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL*

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

APPLE TREES

Can Ship in 24 Hours Notice

NO FINER TREES EVER GROWN. WELL BRANCHED

	5 to 6 ft. 3-4 and all up	4 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 5 ft.		5 to 6 ft. 3-4 and all up	4 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 5 ft.
Autumn Strawberry.....	—	—	—	—	500	Rambo.....	200	200	100		
Alexander.....	—	—	—	—	200	Rome Beauty.....	500	500	500	500	800
American Golden Russett.....				100	100	Ribston Pippin.....	50	50	50	50	50
Ben Davis.....	4,000	4,000	4,000	2,000	3,000	Rolfe.....	300	100	100		
Baldwin.....	8,000	7,000	5,000	4,000	3,000	Red Romanite.....	150	150	100	100	100
Bailey's Sweet.....	25	25	25			Roxbury Russett.....	200	200	100	100	100
Bellflower.....			500	200		Rawles Janet.....				50	
Chenango Strawberry.....	50					Roman Stem.....	100	100	100	100	
Cooper's Early White.....	50					Rhode Island Greening.....	800	1,000	500	200	100
Coffelet Beauty.....			100	100	100	Stayman's Wine Sap.....		1,000	1,000	1,000	
Cooper's Market.....			75	75	75	Sweet Bough.....	200	200	200	200	200
Dominie (Winter Rambo).....	500	200	100	100		Sweet June.....	50	150			
Fallawater.....	500	400	300	150	100	Summer Rambo.....		200	200	200	200
Florence.....	225	175	75			Seott's Winter.....		1,500	500	500	
Flora Belleflower.....	300	500	500	200	100	Smith's Cider.....		500	500		
Golden Sweet.....	50	75	100	50	50	Salome.....			300	300	300
Gravenstein.....		500	500	400	200	Shackelford.....		300	100		
Grimes Golden.....	3,000	3,000	3,000	3,000		Stark.....				1,000	500
Gano.....	5,000	5,000	5,000	5,000	2,000	Tulpehocken.....	500	200	200	200	100
Haas.....	500	200	100	100	100	Tolman's Sweet.....		600	600	600	600
Hubbardton's Nonesuch.....				50	50	Wagner.....		500	500	500	500
Indian.....	500	200	100	100	100	Willow Twig.....		500	300		
King.....			500	500	100	Wine Sap.....	1,000	1,000	2,000	1,000	
Lowell.....	50	50	25	25	25	Wealthy.....					500
Limber Twig.....		50	25			Wolf River.....				100	
Lankford Seedling.....	200	300	300	200		Wallbridge.....	400	100	100		
Longfield.....	150	50	50	50	50	Yellow Transparent.....	1,000	1,000	1,000		
Maiden's Blush.....					1,000	Transcendent Crabs.....	600	200	200		
Missouri Pippin.....				500	300	Golden Beauty.....	100	100	100		
Mann.....	300	100	50			Martha.....	100	150	100		
Northern Spy.....	1,000	1,000	500	300		Hyslop.....	100	800	200	200	200
N. W. Greening.....	10,000	10,000	5,000	5,000	2,000	Whitney.....	100	200	200		
Paradise Winter Sweet.....	1,000	500	500								
Pewaukee.....		1,000	500								
Red Astrachan.....	400	1,000	1,000	1,000							

June Budded Peach Trees

June Buds, 18 in. and up.
June Buds, 12 to 18 in.
June Buds, 8 to 12 in.

PRICE OF PEACH, ONE YEAR FROM BUD

1 yr., extra, $\frac{3}{4}$ to 1 in., 5 to 8 ft., branched.
1 yr., $\frac{3}{4}$ to $\frac{3}{4}$, 5 to 6 ft., branched extra.
1 yr., $\frac{1}{2}$ to $\frac{3}{4}$, 4 to 6 ft., branched, No. 1.
1 yr., $\frac{1}{2}$ to $\frac{3}{4}$, 4 to 5 ft., branched.
1 yr., $\frac{3}{4}$ to $\frac{1}{2}$, 3 to 4 ft., more or less branched.

CHERRY ON MAZZARD

First-class, 5 to 6 ft., $\frac{3}{4}$ and up, two year.
First-class, 4 to 6 ft., $\frac{3}{4}$ to $\frac{3}{4}$, " "
First-class, 4 to 6 ft., $\frac{1}{2}$ to $\frac{3}{4}$, " "
First-class, 4 to 5 ft., $\frac{1}{2}$ to $\frac{3}{4}$, " "
First-class, 3 to 4 ft., " "
Varieties: Early Richmond and Montmorency
BALDWIN CHERRY, Twice the price of
standard stock.

ASPARAGUS

Two and Three Year.

Columbian Mammoth White,
Donald's Elmira,
Palmetto,
Barr's Mammoth,
Conover's Colossal,

KIEFFER PEAR TREES

PEAR TREES—Two Years, Grafted on
French Pear Seedlings, Whole Roots.

Two years, $\frac{3}{4}$ and up, 5 to 7 ft.
Two years, $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 6 ft., well branched.
Two years, $\frac{3}{8}$ to $\frac{5}{8}$, 4 to 5 ft., well branched.
Two years, $\frac{1}{2}$ to $\frac{3}{8}$, 4 to 5 ft., well branched.
Two years, $\frac{3}{4}$ to $\frac{1}{2}$, $3\frac{1}{2}$ to $4\frac{1}{2}$ ft.
Two years, 3 to 4 feet, whips.
One year, 2 to 3 feet.

GRAPE VINES

Two Year, No. 1.

Concord, Salem Delaware,
Moore's Early, Martha Agawam,
Niagara, Catawba, Lady
Pocklington, Champion, Diamond,
Brighton, Wyoming,
Carolina Poplars, 10 to 20 ft.
Carolina Poplars 8 to 10 ft.,
Sugar Maples, 10 to 12 ft.
Sugar Maples, 8 to 10 ft.
Norway Maples, 10 to 12 ft.
Norway Maples, 8 to 10 ft.
Black Walnuts 6 to 8 ft.
Black Walnuts 5 to 6 ft.

COMPLETE LIST OF STRAWBERRY PLANTS

SEND FOR NEW WHOLESALE SURPLUS PRICE LIST AT ONCE.

J. G. Harrison & Sons,

BERLIN, MD.

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Index in no. 1



Continental Nurseries



*The largest and most complete
Nursery plant in the United States.*

*We have a full line of Nursery
Stock the coming year for the whole-
sale trade.*

*We should be pleased to receive
your list for estimate.*



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville Nurseries

OFFER one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.

CALL ESPECIAL ATTENTION TO OUR STOCK FOR SPRING OF
1904 OF

Standard and Dwarf Apples, Standard and Dwarf Pears, Cherries, Plum and Peaches.

Grape Vines — Large lot Fredonia grade.

Small fruits a fair stock of most kinds. Many leading varieties will be short. Early orders advised. Our plants are graded, handled and packed right.

Roses—Hybrid Perpetual and Climbers including the largest lot of Crimson Ramblers in the country.

Shrubs, Climbing Vines, Perennial Plants—In fine assortment including fine lot Ampelopsis Veitchii, Clematis Paniculata, California Privet, Berberry in variety, Japan Quince, etc.

From Holland—Our importations are large and stock never in better condition. Rhododendrons, Hardy Azaleas, Tree Roses, Tree Hydrangea, Magnolias with ball. Flowering Thorns, Purple Filberts, two and three year Clematis, etc..

Some Bargains in light grade Apple and Peach.

Glad to estimate on your list of wants.

Descriptive Catalogue, complete new edition, one of the best and most comprehensive ever issued, free to the trade.

Visitors always welcome. The new C. P. & A. Electric R. R. has stop on our grounds.

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES
Fruit and Ornamental.
Shrubs
Roses
Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.
MOUNT HOPE NURSERIES,
Rochester, N.Y.
Established 1840. Mention this paper.

Advantageous offers upon many

SCARCE VARIETIES are to be
found in **OUR NEW PRICE-LIST**

If you have not received it, write for a copy to-day.

Orders are coming in very rapidly but we can still offer, in
good assortment, splendid stocks of

Roses (On-own-roots
and budded) **Clematis**
Climbing Vines
Flowering Shrubs
Ornamental Tress
(Including C. L. Birch)
Conifers **Paeonias**
Herbaceous Plants
Currants **Gooseberries**
Apples
Cherries **Plums**
Standard Pears
Dwarf Pears **Quinces**

SEND FOR OUR PRICE-LIST. Use printed station-
ary or enclose business card to show that you belong to the
the trade. Sent only to nurserymen, florists and dealers.

JACKSON & PERKINS COMPANY

NEWARK, NEW YORK

Southern Nursery Company
WINCHESTER, TENN.

Our Nurseries are the largest
in the state. We have over 500
acres in actual Nursery Stock.

CLEAN and HEALTHY

Nothing over two years old.
Apple, Peach, (also 500,000
June budded Peach,) Pear,
Cherry, Mariana Plum Cut-
tings. Send us a list of your
wants.

Southern Nursery Company
WINCHESTER, TENN.

When writing to Advertisers mention The National Nurseryman,

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery
Stock, strong on

Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.

A good assortment of Grape Vines, Gooseber-
ries and Currants. Also Ornamental Trees
and Shrubs

When writing to Advertisers mention The National Nurseryman,

E. T. DICKINSON, CHATENAY SEINE, FRANCE

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and
grove. For fence posts, telegraph and telephone poles, most
lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

WANTED Two Good Grafters in Pecan Nursery

ADDRESS,

STUART PECAN CO.,

L. Box 69.

Ocean Springs, Miss.

Evergreen

AND

Forest Tree Seedlings

ORNAMENTAL TREES,
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons

Waukegan Nurseries
WAUKEGAN, - - ILL.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD.

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

The Fraser Nursery,

JOHN FRASER, Prop.

HUNTSVILLE, - - - Ala.

OFFERS FOR IMMEDIATE OR LATER SHIPMENT

Small grade June Buds.

Peach in Dormant Bud.

Standard Pear one and two years old.

Apple one year.

A large stock of Magnolia Grandiflora one and
three years old.

H. P. Roses, California Privet one year,

Hydrangea, P. G. Altheas and Carolina
Poplar.

WRITE FOR PRICES.

RUSSIAN APRICOT SEEDLINGS at very favorable prices.
APPLE GRAFTS made to your order.

We still have a fair stock of Catalpa, Russian Mulberry
and Black Locust seedlings. Also apple trees, two year.

J. A. GAGE,

BEATRICE, NEBR

200 Bsh. fine natural Peach
seed FOR SALE

IHLOFF NURSERY

OKEENE, - - - OKLA.

SURPLUS AMERICAN ELMS
1 inch to 3 inch caliper.

PIN OAK
8 feet high.

H. N. HOFFMAN, Elmira, New York

TWINES

We manufacture every variety of Twines and Ropes used by the Nur-
serymen in this country, and would be pleased to have you write us
for samples and prices.

HOOPER SONS' MFG. CO.,

509 Arch Street, PHILADELPHIA, Pa.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1902, AND SPRING, 1903

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

**Brighton
Central
Nurseries**

We offer a full
and complete
line of
**Fruit and
Ornamental**
stock for fall
trade.

**Apples Peaches
Plums St. Pears
Dwf. Pears
Ornamental Trees
Shrubby
Roses, Etc. Etc.**

Send List of Wants for Quotations. Address

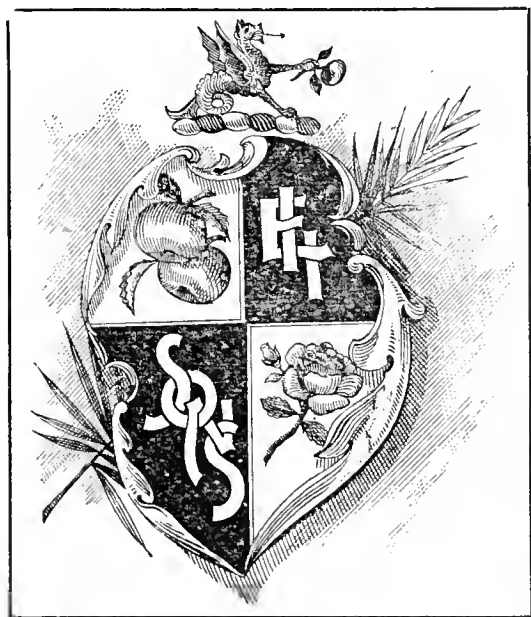
THE H. S. TAYLOR NURSERY CO.

ROCHESTER, N. Y.

Office, Cutler Building

Nurseries at Brighton

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

Surplus Stock for Spring Shipment

APPLE AND PEAR

$\frac{3}{4}$ and up, 5-7 ft., $\frac{5}{8}$ to $\frac{3}{4}$, 5-6 ft.

Special prices on early orders. Inducements on car lots. We equalize freight rates with Eastern points.

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

For Sale Cheap

Standard Pears 4 to 5 ft., $\frac{5}{8}$ grade; Standard Pears 2 to 4 ft., $\frac{1}{2}$ inch grade; Standard Apples 2 to 4 ft. $\frac{1}{2}$ inch grade; Standard Apples 4 to 5 ft. $\frac{5}{8}$ grade; European Plums 2 to 4 ft. $\frac{1}{2}$ inch grade. If you can use any of the above stock let me know about how many you can use and which grades, and I will quote you prices that will secure your order. Address **D. H. PATTY**, Nurseryman, Geneva, N.Y.

WE OFFER 200,000

ELBERTA JUNE BUD PEACH TREES for immediate shipment.

To close out stock at once will make special prices for the next thirty days.

CHICKAMAUGA NURSERIES,

CHATTANOOGA, TENN.

JAPANESE SPECIALTIES

In NURSERY STOCK, BULBS, etc., grown in our own Nurseries in Yokohama and Tokio, Japan.

MAPLES, CONIFERS,

ORNAMENTAL TREES AND SHRUBS,

TREE AND HERBACEOUS PAEONIES,

IRIS KÄMPFERII, the latest varieties,

LILIES, ETC.,

CHESTNUT AND WALNUT SEED.

Prices free ex cars New York, duty included. Sound arrival guaranteed. Write for our trade list.

SPECIAL PRICES FOR LARGE QUANTITIES and hand colored plates for inspection on demand.

Suzuki & Iida

31 Barclay St., NEW YORK.

21-35 Nakamura-machi, YOKOHAMA.

When writing to Advertisers mention The National Nurseryman.

"Special" Greenhouse Putty.

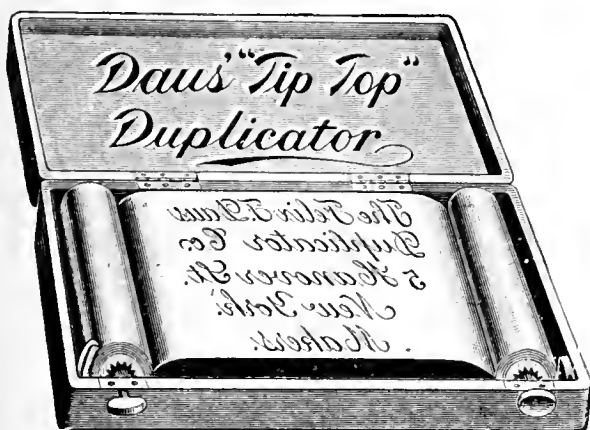
made from pure linseed oil and kiln dried whiting, absolutely unadulterated. Works easier than others, therefore more readily applied. The Best Putty for

QUALITY, DURABILITY AND ECONOMY.

It costs a little more than other makes, but lasts longer. Try a sample lot and be convinced. Write for price and particulars to

LORD & BURNHAM COMPANY

New York Office, St. James Bldg., B'way & 26th St.
General Office & Works, Irvington-on-Hudson, N. Y.



WHAT IS "TIP-TOP"?
... DAUS' **TO PROVE**

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making 100 copies from Pen-written and 50 copies from Type-written original we are willing to send a complete "Duplicator" without deposit on **TEN DAYS trial.**

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33½ per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

SHENANDOAH

THE GREAT NURSERY CENTER OF THE WEST

The Mount Arbor Nurseries have grown wonderfully the past few years—the business and plant have more than trebled in size—so that now we are able to

Offer to the Trade One of the Very Largest and Most Complete Lines of General Nursery Stock on the Market

Assorted Car Lots a Specialty

Private R. R. Switch to Our

Large Storage Buildings . . .

Shipments Made at Any Time

Winter Price List out Early in December

Correspondence and Inspection

Invited. Send Us Your

List of Wants

Mount Arbor Nurseries

—Established 1875—

E. S. Welch, Prop., Shenandoah, Iowa

THE ALTON'S 1904 COWBOY GIRL

TRADE-MARK.

"Sequel to the Fencing Girl."

Copyright, 1903, by Chicago & Alton Railway.

ART CALENDAR

Four graceful poses from life; figures ten inches high, reproduced in colors. Highest example of lithographic art.

"THE ONLY WAY"

to own one of these beautiful calendars is to send twenty-five cents with name of publication in which you read this advertisement, to GEO. J. CHARLTON, Gen'l Passenger Agent, Chicago & Alton Railway, CHICAGO, ILL.

The best railway line between CHICAGO, ST. LOUIS, KANSAS CITY and PEORIA. Take the "Alton" to the St. Louis World's Fair, 1904.

When writing to Advertisers mention The National Nurseryman.

BRIDGEPORT NURSERIES

Grow one of the most complete lines of Hardy Nursery Stock in the country, and have for

FALL 1903 AND SPRING 1904

In quantities to suit customers — CAR-LOAD LOTS, or LESS, at prices that will interest you.

Apple
Plum
Peach
Grapes
Gooseberries
Raspberries

C. Poplar
Norway Maple
Catalpa
Chestnuts
Shrubs
Roses

Pear
Cherry
Quince
Currants
Strawberries
Blackberries

Silver Maple
Hard Maple
Box Elder
Evergreens
Vines
Etc.

APPLE SEEDLINGS

Mariana Plum Stocks.

Imported Seedlings.

APPLE AND PEAR GRAFTS

POMONA—Currant the most profitable.

SPADES—The BEST and CHEAPEST.

EXCELSIOR (baled). The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE

Cheaper, and far superior to Moss.

Our STORAGE and SHIPPING facilities are unsurpassed.

Trade-list ready about September 1st.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

Trade Winners, We Have Them

Apple, $\frac{3}{4}$ in. and up, 5 to 7 feet. Apple, $\frac{5}{8}$ in. to $\frac{3}{4}$ in., 5 to 6 feet.
" $\frac{1}{2}$ in. to $\frac{5}{8}$ in., 4 to 5 feet. " 7-16 to $\frac{1}{2}$ in., 3 to 4 feet.

Peach, $\frac{5}{8}$ and up. Peach, 9-16 to $\frac{5}{8}$. Peach, $\frac{1}{2}$ to 9-16
Peach, 7-16 to $\frac{1}{2}$ Peach, $\frac{3}{8}$ to 7-16.

Heavy on Ben Davis, York Imperial, Baldwin, Gano, Wine
Sap, M. B. Twig, and other leading sorts.

Heavy on Elberta, Beers Smock, O. M. Free, Salway, and
other leading sorts.

PEARS—A fine lot of Garber, Keiffer and Clapps' Favorite in the two upper grades.

PLUM ON PEACH, one year, $\frac{3}{8}$, $\frac{1}{2}$ to $\frac{5}{8}$, 7-16 to $\frac{1}{2}$. Varieties, Abundance, Burbank, Wickson, German Prune, Duans Purple,
Bradshaw, and a few others.

Car load lots a specialty, let us figure on your want list for this fall and next spring. Correspondence solicited.

The Village Nurseries

HARNEDSVILLE, PENNA.

WE offer following stock, finest grade, at Geneva, N. Y.,
and quote low prices:

White Thorn and Paul's dble. Flg. Thorn.
Altheas, all colors. Spirea Van Houtte.
Deutzia Gracilis 2-3 ft.
Clematis Paniculata XX and first-class.
Cal. Privet, heavy.
Am. Arbor Vitea, 3-4 ft. and 2-3 ft., extra quality.
Siberian Arbor Vitae, 2-3 ft. Irish Juniper 3-4 ft.
Asparagus, 2 year, five varieties.
Sweet Apples, four varieties.
Crab Apples, five kinds.
Yellow Transparent Extra, 2 and 3 year, cheap.
Elberta Peach.
Kieffer Pear, fine 2 and 3 year blocks, cheap.
Bartlett, Clapp's, Seckel, Etc.
Sour Cherries.

WHITING NURSERY CO.

BOSTON, MASS.

Grove Hall.

GULF CYPRESS GREENHOUSE MATERIAL

Cut and Spliced Ready for Erection. HOT BED SASH.

GLASS || BOILERS, Pipes,
At Wholesale Vent Apparatus.

S. JACOBS & SONS, Manufacturers
1365 to 2373 Flushing Ave., BROOKLYN, N. Y.

We Furnish Everything for Building. Send for Catalogues

LARGEST GROWER IN AMERICA OF GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

Introducer of Campbell's Early Grape, Josselyn Gooseberry, Fay Currant.

Over a quarter of a century with no change whatever in ownership or management.

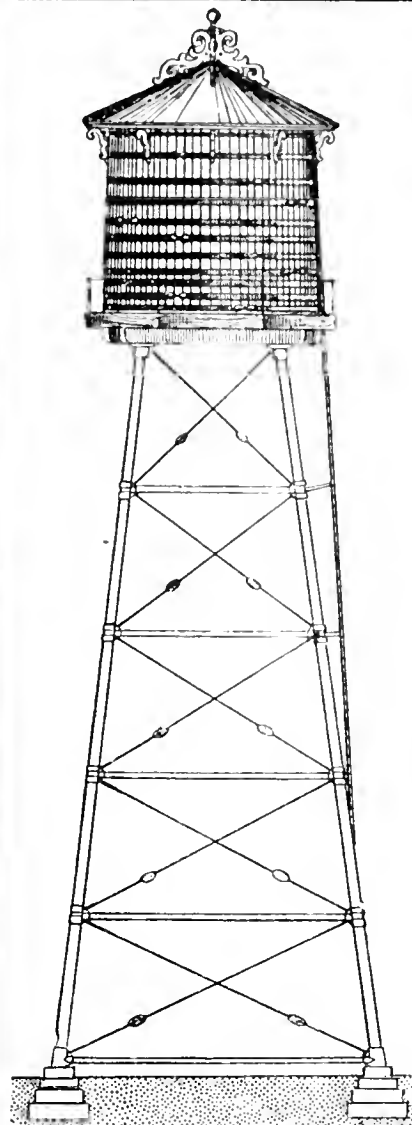
Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

Geo. S. Josselyn

FREDONIA, N. Y.



"Absolutely safe and reliable. Ask your friends"

OF WHAT USE

is a water tank that leaks and has to be constantly tinkered to keep it in service.

A CALDWELL TANK

will hold everything put into it and last a lifetime. No dread of drought.

Send for Our Price List.

W. E. CALDWELL CO.,

LOUISVILLE, KY.

A CHOICE LIST FOR NURSERYMEN

We have just compiled and issued a special list of young ornamental stock, "Ornamental Tree and Shrub Seedlings—Spring 1904", is the title and it will be sent free for the asking. It contains a large assortment of stock especially suitable for planting in nursery rows. Every plant offered is thrifty, well-rooted and at the reasonable prices which we ask, you will find it cheaper to plant our stock than to propagate it yourself. We have made a specialty of furnishing this young stock to nurserymen. Our seed beds and propagating grounds cover many acres.

But, even though the offer is for Spring delivery, do not wait until then to place your order. Write while the assortment is replete. Remember, we have to supply many nurserymen but those who order first are the ones who will receive the stock. Remember, too, the list is free. It may contain just what you want.

Some Popular Specials

Oaks, Maples, Azaleas, Privet, Dogwoods, Crataegus, Berberis, Hydrangeas, Spiraea, Viburnums. But the list is too long to enumerate. We have most everything in HARDY ornamental trees, shrubs, evergreens, vines and perennials. Our 32 page catalog is worth having, even though you do not contemplate purchasing just now. It's free!

Fruit Stocks and Seeds

It may not be too late to secure your supply, but do not delay. We still have, IN LIMITED QUANTITIES, some French pear, Quince, Mariana & Myrobolan plum and Manetti Rose stocks. Good, fresh seed of Kieffer and French pear, quince, Myrobolan plum and peach. Write for "Fruit Seed and Seedling" list.

Raffia—"Red Star Brand"

The mere mention of "Red Star Brand" in raffia means paramount quality. Shun the cheap, inferior article. Buy the best. It pays. We guarantee "Red Star Brand" to be of the best quality. We'll replace any that turns out otherwise.

THOMAS MEEHAN & SONS, INC

Wholesale Nurserymen

DRESHERTOWN, Nursery Street, - - PENNA.

When writing to Advertisers mention The National Nurseryman.

Geo. Peters & Co.

TROY, OHIO.

HAVE A GOOD STOCK OF

Apple, Pear, Plum, Cherry and Peach Trees

to offer in carload lots for early spring shipment.

ALSO HAVE A NICE STOCK OF

Norway Maple, Bechtel's Flowering Crab,

Grape Vines, Currants,

Small Rooted Pyramidal Arborvitae,

TOGETHER WITH A GENERAL LINE OF
ORNAMENTALS.

We still handle and manufacture the

COMMON SENSE CULTIVATOR

Which no Nurseryman can afford to be without.

When writing to Advertisers mention The National Nurseryman.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

===== HAVE TO OFFER =====

APPLE, CHERRY, PEACH
KEIFFER PEAR
(2 yr.)

=====

SHADE TREES

JAPAN PEAR SEEDLING OSAGE CATALPA

GRAPE VINES BECHTEL'S FLOWERING CRAB

Surplus Stock

FOR SPRING OF 1904.

10,000 Apple, in general assortment, all grades.
8,000 St. Pear, " " " "
10,000 Df. Pear, " " " "
12,000 Cherries, " " " "
3,000 Plums, " " " "
20,000 Peach, in general assortment, 1/2 to 5/8 and 5/8 and up grades.
25,000 Grapes, in general assortment, 1 yr., No. 1

Besides the above we have a choice lot of CURRANTS, GOOSEBERRIES, BLACKBERRIES, RASPBERRIES and STRAWBERRIES.

A choice lot of SHRUBS, ORNAMENTAL TREES, ROSES, EVERGREENS, Etc.

The above is all choice No. 1 stock. We are sure it will please. We invite correspondence.

A. WILLIS, - Prop.
OTTAWA, KANS.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries,

Fall 1903 and Spring 1904, offer the following
in Car Lots or Less

Apple 2 and 3 Year

Plum 1 and 2 Year strong on Japans

Peach, (100,000.40 Varieties)

Standard and Dwarf Pear, very fine

Cherry, 1 year 5-8 and all up 3 to 5 feet

Cherry, 1 year Sweets 6 to 8 feet
Branched and Whips

Carolina Poplars

Cut Leaved Maples

Catalpa and Black Locust Seedlings

Silver Maples

W. C. REED, Proprietor

VINCENNES,

INDIANA

1851 Knox Nurseries 1904

We offer for Spring 1904, the following thrifty, well-grown stock :
APPLE—3-year. 3/4 and up and 5/8-3/4. Grimes, Benoni, Y. Transparent, Gano, Wine Sap, Ben Davis, Duchess, Baldwin, York Imperial, N. W. Greening and a few others.

APPLE—2 year, all grades. Ben Davis, Gano, M. B. Twig, Wine Sap, Wealthy, Golden Sweet, Benoni, and a few others. Can ship 2-year Apple from Topeka, Kansas, if desired.

PEACH—three grades. Good assortment, but largely Elberta and Champion. Very fine trees at right prices.

CHERRY—1-year. Still a few choice trees left.

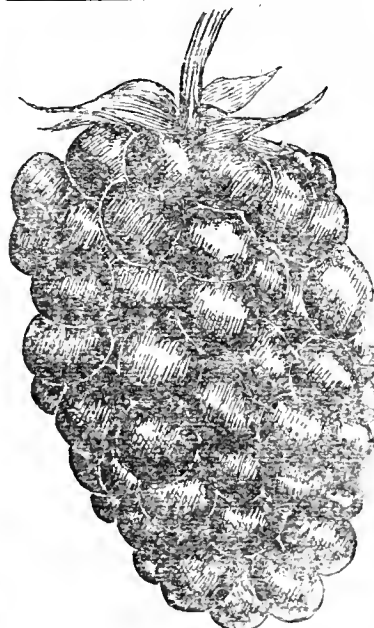
CHERRY—2-year, 3/4 and up. A few 100 Belle de Choisey, Baldwin and Louis Phillipi left.

CATALPA SPECIOSA—1/2 ft.

ST. PEAR—5/8-3/4, Bartlett largely.

PLUM—2-year, 3/4 and up. Shippers pride.

For Fall of 1904 and Spring of 1905 we will have a large lot of Cherry, 1-year old, to offer. Let us quote you prices on your wants.
VINCENNES, INDIANA. H. M. SIMPSON & SONS.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE

Fils Aine,
Ussy, Calvados, France

GROWER AND SHIPPER OF NURSERY STOCK

Ornamentals, trees and shrubs; Evergreens, Conifers, Forest Trees, for spring or fall shipment.

Send for estimates to our sole American agents,

AUGUST RÖLKER & SONS,

P. O. Box 752.

31 Barclay St., New York

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS

RAFFIA FIBRE in Prime Nurserymen's Quality.

PEAR TREES

Fine lot of 2 yrs $\frac{3}{4}$ and up, Stds., Seckel, Koonce, Kieffer, Garber, etc., etc.
Apple 2 yrs. $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, in general assortment.
Complete general Nursery stock. Correspondence invited.

South St. Louis Nurseries,
5,600 GRAVOIS AVE., ST. LOUIS, MO.

60 VARIETIES STRAWBERRY PLANTS

THE BEST FOR THE MONEY.

3,000,000 well grown, pure, and nicely put up, well packed plants for sale. My prices will suit you. A full line of all Small Fruit Plants. Submit a list of your wants early for special prices.

La PORTE NURSERY, H. W. HENRY, PROPRIETOR,
LA PORTE, INDIANA.
60 miles east of Chicago.

ESTABLISHED 1852.

PHOENIX NURSERY COMPANY

WE have for Spring shipment a very complete line of Fruit and Ornamental Trees, Evergreens, Shrubs, Roses, Small Fruits, Hedge Plants, Herbaceous Plants, Greenhouse Stock, Etc., Etc. Send list of wants for Spring shipment, Correspondence solicited. Spring Wholesale-List issued in January.

600 ACRES—13 GREENHOUSES.

P. O. Box 625. BLOOMINGTON, ILL.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of

Beacon Building,

Highlands Nursery, N. C.

BOSTON, MASS.

GRAPE VINES

AND

Currant Plants

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.

HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

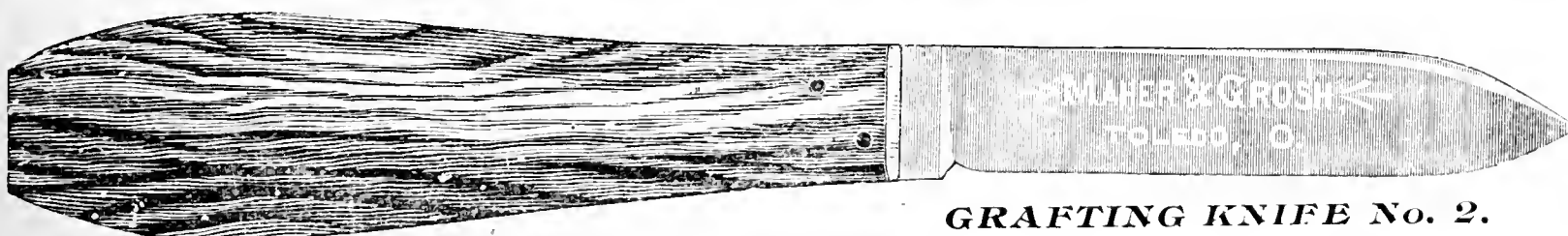
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



GRAFTING KNIFE No. 2.

Cut is exact size of our Grafting Knife No. 2. Sample, by mail, 20 cents. 6 for \$1.00.
No. 1 has a "sheep foot" blade and is larger. Sample, by mail, 25 cents. 5 for \$1.00.
Budding Knife, riveted in handle, 25 cts. 12 for \$2.25, postpaid. Pocket Budder, 35 cents.
Pruning Knife, riveted in handle, 50 cents. 5 for \$2, postpaid. Pocket Pruner, 75 cents.

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

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Nurserymen's KNIVES

Hand forged. Razor steel. Warranted. Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and sent free to all who ask for one.

Send for 12-Page Special Nursery Catalogue

Grape Vines

Stark Grape Nurseries are in the heart of the famous Chautauqua Grape Belt, which produces the finest vines grown in the U. S. An immense stock of the leading sorts, at prices as low as

those of any reputable grower. A complete general nursery stock; also *Southern Natural Peach Seed*.

SEND YOUR WANT LIST FOR PRICES. Portland, N. Y., Louisiana, Mo

STARK BRO'S

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS ❀ ❀ ❀ ❀**

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.
Sole Representatives for the United States.

My Prices Should Interest You

Peach Trees, all grades.
Niagara Grapes, 1 and 2 years.
Arbor Vitae, 3 to 4 ft.
Norway Spruce, 2 to 3 and 3 to 4 ft.
Weir's Cut Leaf Maple, all sizes.

10,000 Deutzia, Pride of Rochester.
100,000 Cal. Privet, 1 year, 10 to 15 in., 15 to 18 in., and 18 to 24 in.
400 bushels Peach Seed.

The Deutzia and Privet at less than cost of imported plants.

W. B. COLE, Painesville, O.

Transon Brothers & D. Dauvesse's Nurseries
BARBIER & CO., SUCCESSORS
16 Route d'Olivet ORLEANS, France.

OUR GENERAL LIST OF

NURSERY STOCKS

Is just issued and may be had from our Agents
Messrs. KNAUTH, NACHOD & KUHNÉ,
13 William Street, NEW YORK
WRITE FOR IT!

Wood Labels for Nurserymen and Florists

BENJAMIN CHASE, DERRY, N. H.

TREE-BOX LUMBER

We are shipping many of the largest nurseries their Tree-Box Lumber, all sized and ready to nail together, and we are SAVING THEM MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

In car lots only.

Write us today for prices.

GOODWILLIE BROTHERS,

Saw Mills and Factory,
WAUSAU, Wis.

407 New York Life Bldg., Chicago, Ill.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

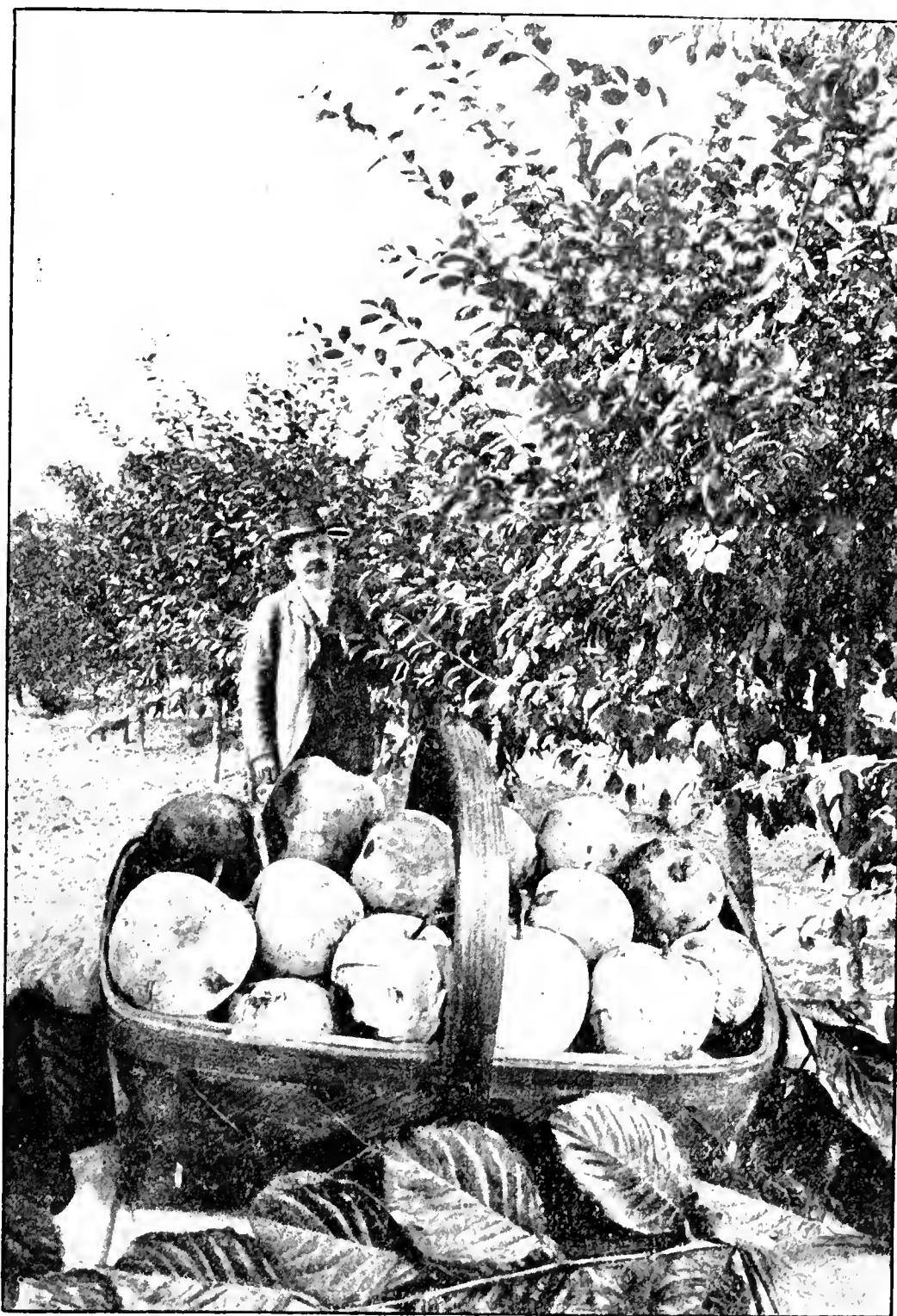
Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty



Two year Maynard Tree and basket of fruit.
 Burbank in the background.

Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

PEACH

	5 to 8 ft. 3-4 and up	5 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 4 ft. 3-8 to 1-2	2 to 3 ft.
Amsden June.....				75	75	75
Arkansas Traveler.....		30	50	50	50	50
Admiral Dewey.....	600	125	125	200	100	100
Alexander.....			25	75	121	125
Bokara.....	40	10	50	60	100	100
Belle of Georgia.....	350	600				
Barber.....			40	50	60	100
Bronson.....		25	75	100	125	150
Beauty Bush.....		25	40	40	40	50
Boston's Oct.....			50	75	100	100
Blyden's Late.....			100	200	1200	300
Brandywine.....					10	25
Bequet Free.....				100	100	100
Barnard's Early.....			50	75	75	100
Burke.....					250	
Crawford's Late.....	3000	2160	720	3100	2800	1700
Crawford's Early.....		120	580	175	150	
Carman.....	7000	1500	800	500	500	625
Cobler.....	40		40	10	10	40
Crosbey.....	800	600	350	300	100	
Christiana.....	200	150	150	200	200	100
*Connecticut.....				20	20	20
Capt. Ed.....	150	40	40	25		
Char's Choice.....	1300	600	600	700	400	
Connet's Early.....		240	1000	500	200	
Conklin.....		25	75	100	125	150
Coolidge Favorite.....		25	50	75	75	75
Dover.....		40	50	50	50	50
*Elberta.....	10950	1350	1750	400	1875	375
Early Rivers.....	1200	300	200	200	100	
Engle's Mammoth.....	1600	700	350	350	500	
Emma.....	100	50	50	50		
Everbearing.....		10	40	10	50	70
Early Heath.....					250	125
Early York.....					75	100
Early Toledo.....		35	25	25	75	75
Early Davidson.....		20	40	50	50	50
Eureka.....		25	25	50	50	50
Early Michigan.....		75	75	75	75	100
Fox Seedling.....		200				
Foster.....	700	950	500	75		
Fitzgerald.....	150	100				200
*Frances.....	600	600	500	250		250
Gold Drop.....				100	50	80
Greensboro.....		100		150		
Geary's Gold On.....	600	300	100	100	100	
Globe.....	160	150	200	350	500	800
Garfield.....				50	75	50
Gordon.....					100	100
Holderbaum.....		10	10	50	50	60
Hale's Early.....	15	25	25	10	10	10
Heley (Early Belle).....	2000	600	400	200	200	
Hill's Chub.....	100	200	200	200	125	125
Haine's Surprise.....	25	25	35	50	50	50
Heard's Beauty.....			20	25	75	150
Hughes.....				75	75	100
Hobson's Choice.....	80	80	90	70	80	100
Heidelberg.....		50	50	25	25	25
Jennie Worthien.....				75	75	100
Jacque's R. R.....	50	50	75	75	75	75
Kalamazoo.....	2300	500	300	200	100	
Levy's Late.....	100	100	100	144	100	100
Lorentz.....	500	100	100	100	50	50
Lewis.....		50	50	100	100	100
Marshall.....			25	50	75	75
Miss Lolo.....		100	100	100	100	100
Magnum Bonum.....			15	75	100	100
Mamie Ross.....	900	400	300	300	100	
Matthew's Beauty.....	700	200	100		498	
Moore's Favorite.....					700	
Mrs. Bret.....			50	75	100	100
Mary's Choice.....				20	75	75
New Prolific.....	1600	400	200	100		
Old Mixon Free.....	500	1690	1350	2700	1450	850
Old Mixon Cling.....		25	50	50	50	50
Oscar.....			50	100	100	100
Picquet's Late.....	900	400	400	200	200	
Pearce's Yellow.....				42	50	50

PEACH

	5 to 8 ft. 3-4 and up	5 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 4 ft. 3-8 to 1-2	2 to 3 ft.
Reeve's Favorite.....	1100	980	1100	1100	1000	1000
Stump.....	250	800		1100	700	300
Scott's Nonpareil.....			75	75	75	75
Sunrise Cling.....					250	
Steadley.....		25	25	48	100	150
Shipley's Late Red.....	25	50	50	50	100	100
Slappey.....	500	150	150			
Smock (Beer's).....		1000	170	998	998	
Sneed.....		150	65	65	65	65
Snow's Orange.....	25	25	50	65	65	75
Silver Medal.....		25	25	50	50	50
Smock Cling.....			25	75	150	150
Schumaker.....			50	75	100	100
Switzerland.....			40	75	100	125
*Triumph.....	1200	200	200			
Tillotson.....	300	150	150	150		
Victor.....	10	25	50	50	50	75
Van Meteor's L. Oct.....	25	35	35	35	35	35
Ward's Late.....	50	25	50	75	85	10
Waterloo.....		75	75	75		75
Wheatland.....	1300	1700	1900	1900	500	300
Wonderful.....	600	649	600	449	349	200
Waddell.....	1200	1499	700	100	100	
Wager.....	14	16	24	49	40	50
Wheeler's Late.....			49	49	49	49
William's Favorite.....			20	49	74	74
Yellow St. John.....	1000	800	800	1000	499	300
Yellow R. R.....			49	100	100	100

We call SPECIAL ATTENTION to our LOW PRICES for Extra Grade Peach, for Extra Early Spring Shipment.

Send for List of 2 year Apple Trees.

KIEFFER PEAR

3-4 and up 5 to 7 ft.	5-8 to 3-4 5 to 6 ft.	9-16 to 5-8 4 to 5 ft.	3-8 to 1-2 3-1-2 to 4 1-2 ft.	3 to 4 ft. whips	2 to 3 ft. whips
10,000	8,000	7,000	5,000	4,000	2,000

APPLE SCIONS READY.

2 and 3 year GRAPE VINES — Concord, Moore's Early and Aganam.

5,000 CAROLINA POPLARS.

ASPARAGUS ROOTS—2 and 3 year.

STRAWBERRY PLANTS

For sixteen years we have made strawberry plants a specialty for the wholesale trade, and we are proud to say that our stock of plants this season is in every way first-class, grown on our new land, that gives the plant an abundance of fibrous roots, and free from all diseases.

Our plants are handled in the very best possible manner, packed in slatted crates, and will reach any part of the United States in safety.

For early orders, we recommend sending by freight, which is a great saving. After April 10th, if the plants are to be shipped over three hundred miles, we would recommend by express. Early orders are urgently requested for best success. Our prices are ridiculously low, considering the price of labor.

FRESH DUG

20,000—Auto	5,000—Hero	400,000—Parsons
50,000—Aroma	125,000—Johnson's Ea	175,000—Rough Rider
5,000—Bush Clust.	50,000—Jessie	50,000—Rio
100,000—Bubach	300,000—Kansas	800,000—Star
60,000—Bismark	500,000—Louis Hub'h	800,000—Sharpless
60,000—Beder Wood	10,000—Lovetts	400,000—Sample
120,000—Clyde	12,000—Livingston	10,000—Smith
300,000—Crescent	20,000—Lester Lovett	20,000—Superior
10,000—Dayton	10,000—McKinley	900,000—Tennessee
250,000—Early Hath.	10,000—Mark Hanna	3,000—Thompson's E Early
100,000—Excelsior.	8,000—Marie	4,000—Uncle Jim
300,000—Eleanor	60,000—Marshall	300,000—Warfield
100,000—Gandy	210,000—Michell's Ear.	75,000—Wm. Belt.
130,000—Gladstone	60,000—Nick Olmer	9,000—Yant
75,000—Glen Mary	50,000—Ocean City	
800,000—Haviland	30,000—Parker Earle	

Send for New List To-day.

J. G. Harrison & Sons,

BERLIN, MD.



February, 1904

Continental Nurseries



*The largest and most complete
Nursery plant in the United States.*

*We have a full line of Nursery
Stock the coming year for the whole-
sale trade.*

*We should be pleased to receive
your list for estimate.*



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville

Nurseries



OFFER one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.

CALL ESPECIAL ATTENTION TO OUR STOCK FOR SPRING OF
1904 OF

Standard and Dwarf Apples, Standard and Dwarf Pears, Cherries, Plum and Peaches.

Grape Vines — Large lot Fredonia grade.

Small fruits a fair stock of most kinds. Many leading varieties will be short. Early orders advised. Our plants are graded, handled and packed right.

Roses—Hybrid Perpetual and Climbers including the largest lot of Crimson Ramblers in the country.

Shrubs, Climbing Vines, Perennial Plants—In fine assortment including fine lot Ampelopsis Veitchii, Clematis Paniculata, California Privet, Berberry in variety, Japan Quince, etc.

From Holland—Our importations are large and stock never in better condition. Rhododendrons, Hardy Azaleas, Tree Roses, Tree Hydrangea, Magnolias with ball. Flowering Thorns, Purple Filberts, two and three year Clematis, etc.

Some Bargains in light grade Apple and Peach.

Glad to estimate on your list of wants.

Descriptive Catalogue, complete new edition, one of the best and most comprehensive ever issued, free to the trade.

Visitors always welcome. The new C. P. & A. Electric R. R. has stop on our grounds.

The Storrs & Harrison Co.

PAINESVILLE, OHIO

TREES
Fruit and Ornamental.
Shrubs
Roses
Hardy Plants

All the Best and Hardiest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on Request.

ELLWANGER & BARRY,
Nurserymen -- Horticulturists.
MOUNT HOPE NURSERIES,
Rochester, N.Y.
Established 1840. Mention this paper.

Advantageous offers upon many

SCARCE VARIETIES are to be
found in **OUR NEW PRICE-LIST**

If you have not received it, write for a copy to-day.

Orders are coming in very rapidly but we can still offer, in
good assortment, splendid stocks of

Roses (On-own-roots
and budded) **Clematis**
Climbing Vines
Flowering Shrubs
Ornamental Tress
(Including C. L. Birch)
Conifers **Paeonias**
Herbaceous Plants
Currants **Gooseberries**
Apples
Cherries **Plums**
Standard Pears
Dwarf Pears **Quinces**

SEND FOR OUR PRICE-LIST. Use printed station-
ary or enclose business card to show that you belong to the
the trade. Sent only to nurserymen, florists and dealers.

JACKSON & PERKINS COMANY

NEWARK, NEW YORK

Southern Nursery Company
WINCHESTER, TENN.

Our Nurseries are the largest
in the state. We have over 500
acres in actual Nursery Stock.

CLEAN and HEALTHY

Nothing over two years old.
Apple, Peach, (also 500,000
June budded Peach,) Pear,
Cherry, Mariana Plum Cut-
tings. Send us a list of your
wants.

Southern Nursery Company
WINCHESTER, TENN.

When writing to Advertisers mention The National Nurseryman.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery
Stock, strong on

Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.

A good assortment of Grape Vines, Gooseber-
ries and Currants. Also Ornamental Trees
and Shrubs

When writing to Advertisers mention The National Nurseryman.

H. J. WEBER & SONS NURSERY CO.

Nursery Station
ST. LOUIS, MO.

Offer a good line of No. 1, 2 year Apple, 1 year Peach, 2 year Kieffer and Garber, Cherry 1 and 2 year, etc.
Also large selection Ornamental Trees such as Maple, 1 to 2 inches caliper ; Elm, Poplar, Cypress Linden, etc.
Fine selection Everblooming Roses, also H. P.
Send list of wants for prices.

We are in the market for large
Specimen Shrubs, Evergreens, Etc.
Send us list with your best prices

1866 1904

Maple Grove Nurseries
WATERLOO, N. Y.

Surplus Stock for Spring Shipment Good General Assortment

Especially Fine Lot of

APPLES and PEACHES

Send Wants List for Quotations

PEIRSON BROTHERS
Proprietors

SURPLUS STOCK for SPRING TRADE
APPLES

Leading kinds. 1st, 2d and 3d sizes.

CHERRIES

2 years. Sours. 3/8 to 3/4 and 1/2 to 5/8.

PEACHES

Elberta, Carman, Champion, Kalamazoo, etc. Three sizes, all in cellars.

WANT Plums, Kieffer Pear and Strawberries. Prices Low.

The Albaugh Nursery and Orchard Co.

PHONETON, OHIO

THE WILLADEAN NURSERIES

Offer in surplus for SPRING 1904, all kinds of first class Nursery Stock

SPECIAL LOW PRICES

will be quoted on Apples, Pums, Cherry and Asparagus, Sweet Gum, Tulip, Silver Maples, Am. Elm, Scotch Elm, Oaks in variety, Magnolia Accuminata, Ash in variety, Catalpas, Cypress, Yellow Wood, Red Bud, Am. Sycamore, Paulownia and others. All sizes from 4 to 15 feet. Spirea Van Houtti, Hydrangeas, Weigalias, Lilacs, Berberry, Deutzias, Cut Leaf Elder, Purple Fringe, Syringas, Snowberry and many other Shrubs. Seedlings such as Catalpas, Mulberrys, Oaks, Maples, Sweet Gum, Ailanthus, Hackberry, Red Bud, Calycanthus, Snowballs, Hydrangeas, and others, Paeonias, Perennials, etc. Send your list of wants for special prices. Correspondence solicited.

The Donaldson Co.

Successors to DONALDSON & GIBSON

WARSAW, KY.

WOOD LABELS OF EVERY DESCRIPTION

For Nurserymen and Florists

DAYTON FRUIT TREE LABEL CO.

South Canal Street, Dayton, Ohio

Michigan Grown Apple, Pear, Peach and Plum.

Catalpes Carolina Poplars Mountain Ash En. Hydrangeas P. G. Barberry Pur. Am. Arbor Vitae Norway Spruce	Arkansas Black Baldwin Ben Davis Hubbardson Grimes' Golden Longfield Northern Spy Rome Beauty Talman Sweet York Imperial Stark	Bartlett Anjou Clairgeau Clapps Fav. Flemish Beauty Idaho Kieffer Lawrence L. Bonne Seckle Sheldon Vt. Beauty	Elberta Kalamazoo and St. John Lewis S and Fitzgerald B. Smock and Champion Salway and Crosby Early and Late Crawford Chair's Choice and Triumph	Wickson Climax Abundance Red June
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WEST MICHIGAN NURSERIES, Benton Harbor, Mich.

E. T. DICKINSON, CHATENAY SEINE, FRANCE

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and
grove. For fence posts, telegraph and telephone poles, most
lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

Strawberry Plants and Seed Potatoes.

You can make more money if
you plant intelligently. Write
and tell us about your soil.
We'll send you our Free Descriptive
Book. Over 100 varieties.

FLANSBURG & PEIRSON,
Leslie, Mich.



Evergreen

AND

Forest Tree Seedlings

ORNAMENTAL TREES,
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons

Waukegan Nurseries
WAUKEGAN, - - ILL.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD.

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Peach and Apple Trees

California Privet
1-7 2 Year Old Strong.

Grape Vines
1 and 2 Year Old.

Asparagus Roots
2 Year Strong.

Strawberry Plants
From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

The Fraser Nursery,

JOHN FRASER, Prop.

HUNTSVILLE, - - - Ala.

OFFERS FOR IMMEDIATE OR LATER SHIPMENT

Small grade June Buds.
Peach in Dormant Bud.
Standard Pear one and two years old.
Apple one year.
A large stock of Magnolia Grandiflora one and
three years old.
H. P. Roses, California Privet one year,
Hydrangea, P. G. Altheas and Carolina
Poplar.

WRITE FOR PRICES.

APPLE GRAFTS

We have about 150,000 good *Apple Grafts* to offer which will be
made to your order. Also Russian Mulberry, Black Locust and Osage
Orange seedlings in good supply. Favorable prices.

J. A GAGE, Beatrice, Nebraska

200 Bsh. fine natural Peach
seed FOR SALE

IHLOFF NURSERY

OKEENE, - - - OKLA.

RASPBERRIES

Cumberland (new)
Eureka
Greag
Kansas
Ohio
Palmer
Souhegan
Conrath
Lotta
Gault
Mammoth Cluster
Munger (new)
Cuthbert
Golden Queen
Hansell
Louaon
Miller
Marlbrough
Turner
Rancocas
Columbian
Kina (new)
Shaffer Col.
Haymaker (very fine)
Cardinal (new)

Surplus Stock

Good Assortment in
Storage for Early Ship-
ments--Prices right

ASPARAGUS

Our Asparagus is extra well
grown and sure to please you.
Prices, we think, very low.

Conover's Col., 1, 2 and 3 years
Barr's Mammoth, 1, 2 and 3 years
Palmetto, 1, 2 and 3 years
Columbian White, 1, 2 and 3 years
Elmira, 1 2 and 3 years

CUTTINGS

5,000 Currant Cuttings and
Gooseberry Layers, also Quince
Cuttings

Rhubarb, Horse Radish, Grape
Vines, Currant and Gooseberries
Catalogue and Wholesale Price
List Free

BLACKBERRIES

Crystal White
Early Harvest
Erie
Eldorado
Kittinany
Lawton
Maxwell
Minnewaski
Early King
Rathbun
Mersereau
Ancient Britton
Ohmer
Stone's Hardy
Snyder
Taylor
Wilson's Early
Wilson Jr.
Agawam
Wauchusett
Iceburg
Premo Dewberry
Lucretia Dewberry
Austins Dewberry
Japanese Wineberries
June Berries, 12-18 in.
June Berries, 18-24 in.
Logan Berries

W.N. Scarff, New Carlisle, O.

Georgia Nursery For Sale

40 acres best land in Cobb County.
Full line of Young Stock.
For further information address,

NURSERY, P. O. BOX 182, AUSTELL, GA.

AN OLD AND PROFITABLE NURSERY FOR SALE

In Western New York.
Wholesale and Retail.

Address R, Care of National Nurseryman, Rochester, N. Y.

A. Capable Man with ten years experience as manager of a retail business, would like to make the right connection with a good firm. Has had full experience in getting and handling men, collections, buying, packing, catalogues and follow up matter.

NURSEYMAN, care of National Nurseryman

HARDY TREES AND SHRUBS OF EVERY DESCRIPTION.

C. ESCHWEILER, - The Nurseries
OUDENBOSCH, (HOLLAND.)

CATALOGUE FREE ON APPLICATION.

GREENWOOD NURSERIES

We Offer for Spring

APPLE 2 and 3 year—all grades—Ben Davis, Grimes Golden, Smith Cider, Baldwin, M. B. Twig, York Imperial, Rome Beauty, etc.

PEACH All grades, large list. Elberta in surplus, KING and Loudon. Red Raspberries, Suckers Plants. **SALESMEN WANTED**

DEAN & BILLINGSLEY, Greenwood, Johnson County, Indiana

The Dansville Willow and Twine Looping Machine

Patented. Price \$10 F. O. B. Will exchange for first class nursery stock, F. O. B. 50 machines sold at full price at two sessions of American Association of Nurserymen. 150 machines now in use. References: Ellwanger & Barry, Chase Bros., Storrs & Harrison, R. G. Chase & Co., Brown Bros, and a hundred others now using the machines, if wanted. Weight, 6 lbs.

G. C. STONE, Nurseryman
DANSVILLE, N. Y.

OUR MID-WINTER BARGAIN OFFER

Can ship on one day's notice. All trees thrifty, free from disease and well up to grade. ♢ ♢

Dormant Buds. 50,000 Elberta, 1,150 Carman, 4,200 Bell of Ga.

JUNE BUDS.	2-6 in.	6-12 in.	12-18 in.	18-24 in.	2-3 ft.
Elberta.....	24,000	40,000	140,000	150,000	100,000
Carman.....	1,500	8,350	10,000	5,000	3,000
Bell of Ga.....	3,000	10,300	7,550		
Hiley.....	500	2,250	1,150	550	200
Sneed.....	650	250	550	1,100	150
Alexander.....	450	150	750		
Greensboro.....	200	850		200	
Chinese Cling.....	300	400	250		
Tillotsen.....	500				
Waddell.....		1,000			

APPLE.	2 yr. 3/4 and up	5/8-3/4	1 1/2-5/8	1 1/2-1 1/8	3-4 ft.	2-3 ft.	1-2 ft.
Ben Davis.....	5-7 ft.	6-10 ft.	4-5 ft.	3 1/2-5 ft.	1,450	825	750
Jonathan.....			1,000	3,750	425		
Wine Sap.....				1,420	425	175	
Mo Pippin.....	330	100	125	850			
M. B. Twig.....	405	60		75			
Ea. Harvest.....	30				750		
Baldwin.....	30	40					
Kinnard's Choice..	105		200	100			
Gano.....	30	40					
Hargrove.....	20						
York Imperial.....		80					
Shannon Pippin...			100				
Wallace Howard...			75				
Limber Twig.....				100			

75,000 Ben Davis, 50,000 M. B. Twig, 30,000 Wine Sap, 20,000 Jonathan Apple Scions.

PEAR.	3-4 ft.	2-3 ft.	1-2 ft.
Bartlett.....	250	500	500
Kieffer.....			500
Garber.....			100

CHERRY. 1-2 ft. 600 Ea. Richmond, 100 Montmorency.

All stock guaranteed true to name and well graded, strictly first class. Also have big assortment 1 yr. Peach, Plum, Raspberry, Blackberry, Strawberry, Gooseberry and Currant plants. Asparagus, Horse Radish and Rhubarb roots, &c. Write for prices. We pack so as to assure safe arrival to any part of the country.

CHATTANOOGA NURSERIES, Chattanooga, Tenn.

PEACH TREES FOR SALE

2 to 3 ft. tall, also 3 ft. and up tall.

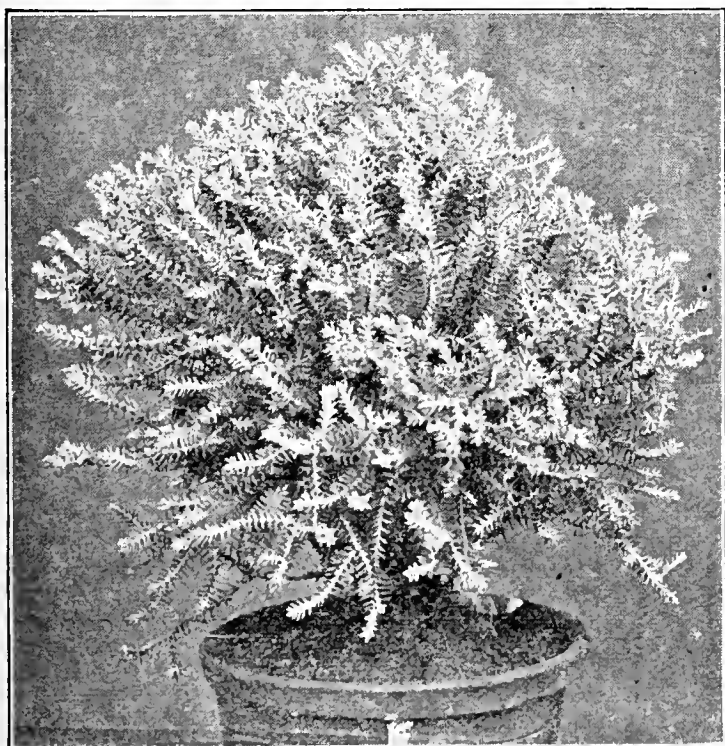
Assortment of leading varieties our own growing. Prices on application.

C. W. STUART & CO., Newark, New York

North Carolina Mountain Natural Peach Seed Crop of 1903.

We still have a fair supply left at reasonable prices. Seeds are well dried and cured. Price and sample on application.

J. VAN LINDLEY NURSERY CO. - Pomona, N. C.



RETINISPORA SANDERI

The New Blue Conifera Retinispora Sanderi

THE most important addition to our list of Hardy Evergreens in many years, and a plant which will prove indispensable in any collection. Its habit is entirely distinct from all other Retinisporas, being dwarf and compact, forming beautiful dense cushion-like specimens semi-globular in shape and of a most pleasing and attractive glaucous blue color, the accompanying illustration conveys a very good idea of its style of growth.

We exhibited the plant at the Chrysanthemum Show of the Pennsylvania Horticultural Society last November where it attracted much attention and was awarded a certificate of merit.

We have secured control of the entire stock for distribution in the United States and Canada and offer good shapely plants suitable for immediate planting or for propagating purposes as follows.

8 inches high, 8 inches in diameter.
6 " " 5 " " "

Write us for prices.

HENRY A. DREER, - 714 Chestnut St., Philadelphia, Pa.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

APPLE SCIONS

A fine lot of all the leading sorts.

Write for prices. **STARK BROS.** Louisiana, Mo.

POTS! POTS! POTS!

We are manufacturers of *Standard Flower Pots* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY, 213-23 Pearl Street NORRISTOWN, PA.

Beechwood Nurseries

I have a full line of PEACH TREES (all grades) in surplus; also 500 fine 3-year Ben Davis to offer.

ALL TREES FUMIGATED.

C. L. LONGSDORF
FLORADALE, PA.



Spray Apple Trees.
There's no other way to get right fruitage. Its mounted barrel tank, submerged brass cylinder, bronze ball valves and automatic agitation make the

CENTURY SPRAYER
the ideal for all orchard operations. All kinds sprayers for all purposes. 20 styles. Hand, Bucket, Knapsack, Barrel, Field, Power. Special needs all met. Catalog free. Booklet on insects and fruit diseases 10c.

THE DEMING CO., SALEM, OHIO.
Henlon & Hubbell, Western Agents, Chicago, Ills.

Peach Trees Full assortment of varieties, lalseiz.s

Kieffer Pear 2-year, 3/4 up, on Imported Stocks.

Apple 2-year, 3/4 up and 5/8 to 3/4.

Ben Davis, Gano, York Imperial, Baldwin.

Above surplus in carloads or smaller quantities for winter or early spring shipments.

All grown on Missouri River upland, 50 to 250 ft. above the flood line.

WRITE FOR PRICES.

New Haven Nurseries

NEW HAVEN, Mo.

P. O U W E R K E R K

1123 SUMMIT AVENUE

JERSEY CITY, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnoleas, Box Trees, Fancy Conifers, Hydrangeas and Shrubs our specialities at our **HOLLAND NURSERIES**. Some of the goods on hand here during the packing season.

The Delaware Nurseries

D. S. COLLINS, Manager,

MILFORD, DELAWARE.

Offer 200,000 Peach Trees In General Assortment, for Spring 1904 Delivery

4-5 feet, 3-4 feet, 2-3 feet. Prices given on application.



THE ARNDT TREE PROTECTOR

A perfect, inexpensive protection against all creeping and crawling insects. Agents wanted everywhere.

WRITE AT ONCE Michigan Cut Flower Exchange

WM. DILGER, Mngr., Sole Distributors,
DETROIT, MICH., U. S. A.

RAFFIA

BEST grades of Madagascar Raffia for Nurserymen.

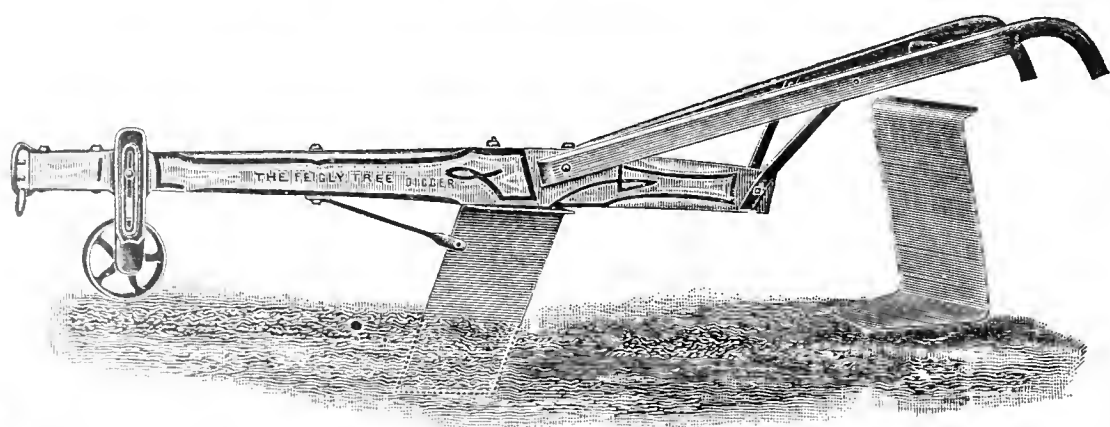
Orders for bale (225lbs.), or more from stock or for direct import. Write for prices.

McHUTCHISON & CO., 218 Fulton St., NEW YORK:

Wanted

Office man in a good Western city. A good position for the right man

Address "Life" care of National Nurseryman Rochester, N. Y.



THE IMPROVED FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

D. FEIGLY, Medway, O. Sole Agent. Send for Circular.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1903, AND SPRING, 1904

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

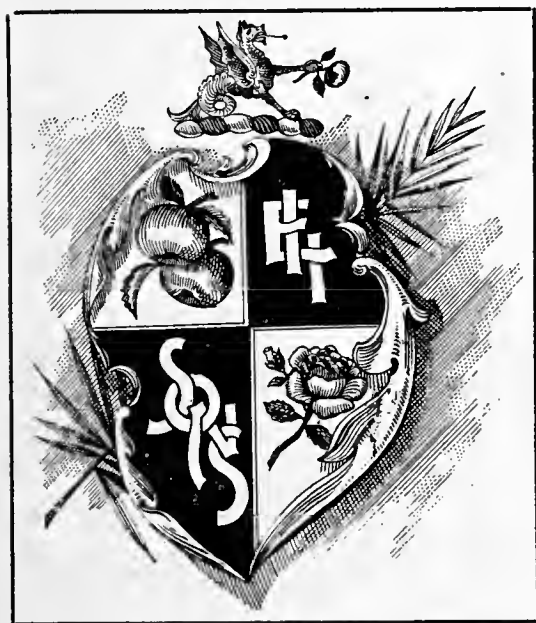
All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

Surplus Stock for Spring Shipment

APPLE AND PEAR

$\frac{3}{4}$ and up, 5-7 ft., $\frac{1}{2}$ to $\frac{3}{4}$, 5-6 ft.

Special prices on early orders. Inducements on car lots. We equalize freight rates with Eastern points.

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

12,000 Peach 7 to 7½ feet, also 5 to 6 and 4 to 5 feet

Twelve kinds—Elberta, Nitre Rose, Stephens R. R. Sneed, E. Rivers, Crawford Late, Stump, Chairs Choice, Wheatland, Old Nixon Free, etc. Clean, bright trees, not dug last Fall. Osage Orange, Lombardy Poplars, 10 to 15 feet, fine, stocky; Cal. Privet, Hemlock, Spruce, 3 ft.; G. Queen and Marlboro, Raspberries, etc.

Josiah A. Roberts

MALVERN, PA.

WE OFFER 200,000 ELBERTA JUNE BUD PEACH TREES for immediate shipment.

To close out stock at once will make special prices for the next thirty days.

CHICKAMAUGA NURSERIES,

CHATTANOOGA, TENN.

JAPANESE SPECIALTIES

In NURSERY STOCK, BULBS, etc., grown in our own Nurseries in Yokohama and Tokio, Japan.

MAPLES, CONIFERS,

ORNAMENTAL TREES AND SHRUBS,

TREE AND HERBACEOUS PAEONIES,

IRIS KÆMPFERII, the latest varieties,

LILIES, ETC.,

CHESTNUT AND WALNUT SEED.

Prices free ex cars New York, duty included. Sound arrival guaranteed. Write for our trade list.

SPECIAL PRICES FOR LARGE QUANTITIES and hand colored plates for inspection on demand.

Suzuki & Iida

31 Barclay St., NEW YORK.

21-35 Nakamuramachi, YOKOHAMA.

When writing to Advertisers mention The National Nurseryman.

BRIDGEPORT NURSERIES

Grow one of the most complete lines of Hardy Nursery Stock in the country, and have for

SPRING 1904

In quantities to suit customers — CAR-LOAD LOTS, or LESS, at prices that will interest you.

Apple
Plum
Peach
Grapes

Gooseberries
Raspberries
C. Poplar
Norway Maple

Catalpa
Chestnuts
Shrubs
Roses

Pear
Cherry
Quince
Currants

Strawberries
Blackberries
Silver Maple
Hard Maple

Box Elder
Evergreens
Vines
Etc.

Mariana Plum Stocks.

Imported Seedlings.

**APPLE
SEEDLINGS**



POMONA—Currant the most profitable.

SPADES—The BEST and CHEAPEST.

EXCELSIOR (baled). The BEST PACKING MATERIAL
for either SHIPPING or WINTER STORAGE

Cheaper, and far superior to Moss.

Our **STORAGE** and **SHIPPING** facilities are unsurpassed.

Trade List Ready About February 1st.

**APPLE AND
PEAR GRAFTS**



ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

Trade Winners, We Have Them

Apple, $\frac{3}{4}$ in. and up, 5 to 7 feet. Apple, $\frac{3}{4}$ in. to $\frac{1}{2}$ in., 5 to 6 feet.
" $\frac{1}{2}$ in. to $\frac{3}{4}$ in., 4 to 5 feet. " 7 16 to $\frac{1}{2}$ in., 3 to 4 feet.

Heavy on Ben Davis, York Imperial, Baldwin, Gano, Wine
Sap, M. B. Twig, and other leading sorts.

PEARS—A fine lot of Garber, Keiffer and Clapps' Favorite in the two upper grades.

PLUM ON PEACH, one year, $\frac{3}{8}$, $\frac{1}{2}$ to $\frac{3}{4}$, 7-16 to $\frac{1}{2}$. Varieties, Abundance, Burbank, Wickson, German Prune, Duans Purple,
Bradshaw, and a few others.

Car load lots a specialty, let us figure on your want list for this fall and next spring. Correspondence solicited.

Peach, $\frac{3}{8}$ and up. Peach, 9 16 to $\frac{3}{4}$. Peach, $\frac{1}{2}$ to 9-16
Peach, 7-16 to $\frac{1}{2}$ Peach, $\frac{3}{8}$ to 7-16.

Heavy on Elberta, Beers Smöck, O. M. Free, Salway, and
other leading sorts.

The Village Nurseries

HARNEDSVILLE, PENNA.

WE offer following stock, finest grade, at Geneva, N. Y.,
and quote low prices:

White Thorn and Paul's dble. Flg. Thorn.
Altheas, all colors. Spirea Van Houtte.
Deutzia Gracilis 2-3 ft.
Clematis Paniculata XX and first-class.
Cal. Privet, heavy.
Am. Arbor Vitae, 3-4 ft. and 2-3 ft., extra quality.
Siberian Arbor Vitae, 2-3 ft. Irish Juniper 3-4 ft.
Asparagus, 2 year, five varieties.
Sweet Apples, four varieties.
Crab Apples, five kinds.
Yellow Transparent Extra, 2 and 3 year, cheap.
Elberta Peach.
Kieffer Pear, fine 2 and 3 year blocks, cheap.
Bartlett, Clapp's, Seckel, Etc.
Sour Cherries.

WHITING NURSERY CO.

BOSTON, MASS.

Grove Hall.

GULF GYPRESS

Greenhouse Material

CUT AND SPLICED READY FOR ERECTION

Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus

GLASS at Wholesale

Try our Seal Tight Liquid Putty

Sample Gallon, 75 cents

S. JACOBS & SONS

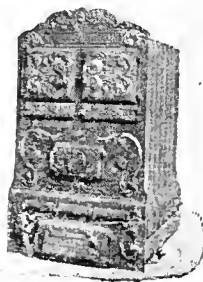
MANUFACTURERS

1365 to 1373 Flushing Avenue

BROOKLYN, N. Y.

We furnish everything for building.

Send for prices and catalogue



The Lord & Burnham Company's

Hot Bed Sash and Frames

for growing Vegetables, Violets, etc., are the best, therefore the cheapest on the market. They are constructed of selected Red Gulf Cypress, strictly free from sap, in a thorough manner and combine strength with durability. All joints are white leaded and are held with steel dowel pins. An iron rod is run through the centre of all the sash bars, tying the sash and giving support to the bars. All sash are glazed with good quality double thick glass, and receive two coats of paint.

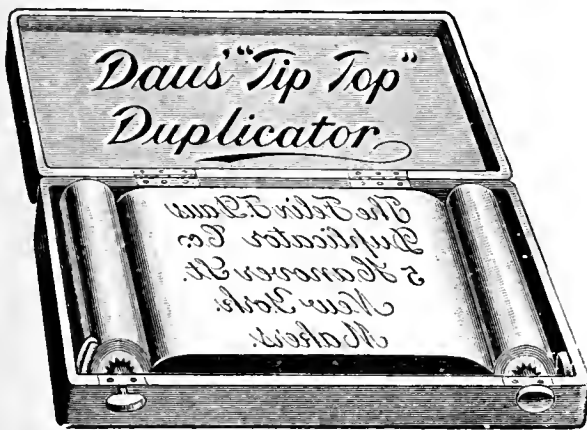
We keep in stock 3 x 6 ft. and make all sizes of sash to order and also carry in stock Cypress Hot Bed Frames to hold any number of sash. These frames are portable and can be taken apart for storage when not in use.

We are able to make prompt shipments and our liberal freight allowance covers most points in Eastern and Middle States.

Write our New York office for price list and circular. Greenhouse Heating and Ventilating Catalogue and Greenhouse Construction Catalogue sent by mail on receipt of five cents for each.

LORD & BURNHAM COMPANY

New York Office, St. James Bldg., Broadway & 26th St.
General Office and Works, Irvington-on-Hudson, N. Y.



WHAT IS "TIP-TOP"? ... DAUS'

TO PROVE

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

100 copies from Pen-written and 50 copies from Type-written original we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33½ per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

IN STORAGE

We offer for spring, 1904 one of the largest stocks we have ever carried.

Have You Seen our Wholesale List Issued February 1st?

Can also supply the larger grades of the same varieties as named below. If interested write. Iowa grown trees.

APPLES.	4 to 5 ft. ½ to ¾	APPLES.	4 to 5 ft. ½ to ¾	APPLES.	4 to 5 ft. ½ to ¾
Anisim.....	35	Jersey Black.....	80	Red Win. Pearmain.....	100
Arkansas Black.....	240	Jonathan.....	3530	Red Win. Sweet.....	109
Aut. Strawberry.....	170	Kaump.....	70	Romansten.....	190
Bailey Sweet.....	20	King of T. Co.....	45	Rome Beauty.....	60
Baldwin.....	180	Lankford.....	130	Rox Russett.....	149
Bayard.....	120	Lansingburg.....	90	Salome.....	255
Ben Davis.....	3290	London Sweet.....	54	Scott's Winter.....	360
Benoni.....	10	Longfield.....	237	Seek-No-Further.....	30
Black Annette.....	870	L. R. Romanite.....	140	Sheriff.....	30
Chenango.....	10	McMahon.....	235	Staymen's Winesap.....	320
D. W. M. Blush.....	160	Mam. Blk. Twig.....	615	Smokehouse.....	20
Duchess.....	2160	Mann.....	160	Smith's Cider.....	15
Early Harvest.....	975	Milam.....	120	Spitzenberg, E.....	25
Early Pennock.....	80	Milwaukee.....	27	Summer Pippin.....	50
Ea. Strawberry.....	69	Mo. Pippin.....	225	Stark.....	70
Fall Orange.....	103	Northern Spy.....	60	Sweet Bough.....	30
Fall Pippin.....	67	N. W. Greening.....	1620	Sweet June.....	68
Fameuse.....	220	Par. Win. Sweet.....	50	Talman Sweet.....	70
Gano.....	1780	Pat. Greening.....	365	Utter's Red.....	292
Gravenstein.....	90	Peerless.....	53	Wagner.....	60
G. G. Pippin.....	518	Perry Russett.....	240	Walbridge.....	715
Haas.....	90	Peter.....	157	Wealthy.....	960
Hibernal.....	230	Pewaukee.....	390	White Pippin.....	330
H. Nonsuch.....	145	Pound Sweet.....	190	Willow Twig.....	255
Huntsman.....	120	Prie's Sweet.....	210	Winesap.....	615
Isham Sweet.....	100	Rambo.....	210	Wisconsin Russett.....	103
Iowa Beauty.....	49	Ramsdell Sweet.....	190	Wolf River.....	330
Iowa Blush.....	420	Red Astrachan.....	520	Yel. Belleflower.....	110
Ingram.....	145	Red June.....	1320	Yel. Transparent.....	1280
Janet.....	1190	R. I. Greening.....	90	York Imperial.....	265
CRABS.	4 to 5 ft. ½ to ¾	CRABS.	4 to 5 ft. ½ to ¾	CRABS.	4 to 5 ft. ½ to ¾
Alaska.....	40	Milton.....	240	Shields.....	7
Brier Sweet.....	530	Minnesota.....	135	Transeendent.....	63
Gen. Grant.....	140	Orange.....	85	Virginia.....	15
Gideon No. 4.....	27	Orion.....	20	Whitney.....	1530
Hyslop.....	115	Red Siberian.....	270	White Arctic.....	85
Martha.....	622	Sylvan Sweet.....	70	Yel. Siberian.....	340

Mount Arbor Nurseries

E. S. Welch, Prop.

SHENANDOAH, IOWA

APPLE SEEDLINGS—Limited quantity of No. 2 for sale.

We have for Spring shipment a heavy stock of the following:

Evergreens

Arbor-vitae,	12-18 inch.	Norway Spruce,	4-6 inch.
" "	18-24 "	" "	6-10 "
" "	2-3 feet.	" "	10-15 "
Austrian Pine,	4-6 inch.	" "	12-18 "
" "	6-10 "	" "	18-24 "
Col. Blue Spruce,	4-6 "	Pinus Ponderosa,	4-6 "
Douglas, Spruce	4-6 "	Scotch Pine,	4-6 "
" "	6-10 "	" "	6-10 "
Englemanni,	4-6 "	" "	10-15 "
Hovey's Gol. Ar-	2-3 feet.	White, "	4-6 "
bor vitae,	12-18 inch.		
Hemlock,	18-24 "		
" "	2-3 feet.		

Grapes

One year No. 1 and two year No. 1 and No. 2.

Agawam,	Martha,
Brighton,	Moore's Diamond,
Clinton,	Moore's Early,
Concord,	Niagara,
Delaware,	Pocklington,
Elvira,	Worden,
Empire State,	

We have also a good assortment of Northern Apple, Pear, Cherry and Forest Tree Seedlings, Shade and Ornamental Trees, Weeping Trees, Hedge Plants, Hardy Shrubs, Vines, Roses, Asparagus, Peony's and Palms.

Send us your list of wants.

Sherman Nursery Co.

CHARLES CITY, IOWA.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

SURPLUS, SPRING 1904

150,000 California Privet, fine plants.
25,000 Peach, first-class, 6 to 8 ft.
15,000 Cherry, 3 to 4 ft. and 2 to 3 ft.
10,000 Japan Plums, (fine) $\frac{3}{4}$ up and $\frac{5}{8}$ to $\frac{3}{4}$, 6 to 8 ft.
6,000 Shropshire Damson, $\frac{1}{2}$ to $\frac{5}{8}$, and $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 7 ft.
4,000 Carolina Poplar, 2 year, 10 to 14 ft.
2,000 Sugar Maple, $1\frac{1}{2}$ to 2 in., 10 to 12 ft.
1,000 American Elm, $1\frac{1}{2}$ to 2 in., 12 to 14 ft.
600 American Linden, $1\frac{1}{2}$ to 2 in., 12 to 15 ft.
200 Bushels small Peach Pits, crop 1903, at cost.

WANTED—Apple and Pear Trees, Apple Seed, Apple Seedlings and Ornamental Seedlings.

SURPLUS

Apple Trees
Root Grafts
Forest Seedlings

A full line of SHADE and ORNAMENTAL TREES and SHRUBS.

—WRITE FOR PRICES.—

YOUNGERS & CO., Geneva, Neb.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

TO ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,

St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,

287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,

287 Main St., Buffalo, N. Y.

When writing to Advertisers mention the National Nurseryman

For February and March

CHERRIES—(On Mahaleb). Dukes and Morellos, 4-5 ft. and 3-4 ft. Hearts and Bigarreus, 5-6 ft. and 4 ft.

PEACHES—Leading market sorts, grown on new land. 4-5 ft. and 3-4 ft.

PLUMS—(On Marianna). Leading sorts. 4-5 ft. and 3-4 ft.

PECANS—(Paper shell seedlings and grafted and budded trees).

WALNUTS—Thin Shell and Japan.

EXOCHORDA GRANDIFLORA—18-24 in., bushy.

LONICERA—Belgica, Aurea and Heckrotii. Strong
AMOR RIVER and CALIFORNIA PRIVET in great quantities.

MAGNOLIA GRANDIFLORA.

CEDRUS DEODARA.

BIOTA AUREA PYRAMIDALIS.

LIBOCEDRUS DECURRENS and other CONIFERS.

ORANGES and LEMONS, Grafted. Pot grown.

250,000 PALMS

KENTIAS, PHOENIX and LATANIAS. Well hardened.

Our Stock was never in better condition
No scale or disease.

P. J. BERCKMANS COMPANY, Inc.

FRUITLAND NURSERIES, AUGUSTA, GA.

Est. 1856

Over 400 Acres in Nursery

THE Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut, Norway and Sugar Maple, Lindens, Poplars, Magnolias, EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

Full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.

Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to advertisers mention The National Nurseryman.

LARGEST GROWER IN AMERICA OF GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

Introducer of Campbell's Early Grape, Josselyn Gooseberry, Fay Currant.

Over a quarter of a century with no change whatever in ownership or management.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

Geo. S. Josselyn

FREDONIA, N. Y.

Homes in the South

There are in the Southern States awaiting development, thousands of acres of uncultivated farm lands in tracts of all sizes, which can be purchased very cheaply. They are productive, healthy, and close to good markets. In ten States reached by the lines of the

Southern Railway

For information about opportunities now available, prices of land, character of soils, etc., write to

M. V. RICHARDS

Land and Industrial Agent

Washington, D. C., Southern R'y

Young Ornamental Stock

We have just compiled and issued a special list of young ornamental stock, "Ornamental Tree and Shrub Seedlings—Spring 1904", is the title and it will be sent free for the asking. It contains a large assortment of stock especially suitable for planting in nursery rows. Every plant offered is thrifty, well-rooted and at the reasonable prices which we ask, you will find it cheaper to plant our stock than to propagate it yourself. We have made a specialty of furnishing this young stock to nurserymen. Our seed beds and propagating grounds cover many acres.

But, even though the offer is for Spring delivery, do not wait until then to place your order. Write while the assortment is replete. Remember, we have to supply many nurserymen but those who order first are the ones who will receive the stock. Remember, too, the list is free. It may contain just what you want.

Some Popular Specials

Oaks, Maples, Azaleas, Privet, Dogwoods, Crataegus, Berberis, Hydrangeas, Spiraea, Viburnums. But the list is too long to enumerate. We have most everything in HARDY ornamental trees, shrubs, evergreens, vines and perennials. Our 32 page catalog is worth having, even though you do not contemplate purchasing just now. It's free!

Plum Stocks at Reduced Rates

To clear up our supply of Myrobalan and Mariana plum stocks we are offering them at reduced rates for box lots. Advise us how many stocks you can use, and we would be pleased to forward you our lowest quotations. These stocks are first-class and samples will be sent to those who wish them. We also have a limited number of French Pear, Quince, and Manetti Rose stocks, Kieffer, French Pear, Peach and Quince Seed.

Raffia—"Red Star Brand"

The mere mention of "Red Star Brand" in raffia means paramount quality. Shun the cheap, inferior article. Buy the best. It pays. We guarantee "Red Star Brand" to be of the best quality. We'll replace any that turns out otherwise.

THOMAS MEEHAN & SONS, INC.
Wholesale Nurserymen
DRESHERTOWN, Nursery Street, - - PENNA.

When writing to Advertisers mention The National Nurseryman.

Geo. Peters & Co.

TROY, OHIO.

HAVE A GOOD STOCK OF

Apple, Pear, Plum, Cherry and Peach Trees

to offer in carload lots for early spring shipment.

ALSO HAVE A NICE STOCK OF

Norway Maple, Bechtel's Flowering Crab,

Grape Vines, Currants,

Small Rooted Pyramidal Arborvitae,

TOGETHER WITH A GENERAL LINE OF ORNAMENTALS.

We still handle and manufacture the

COMMON SENSE CULTIVATOR

Which no Nurseryman can afford to be without.

When writing to Advertisers mention The National Nurseryman.

PETERS & SKINNER

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS.

HAVE TO OFFER

APPLE, CHERRY, PEACH
KEIFFER PEAR
(2 yr.)

SHADE TREES

JAPAN PEAR SEEDLING OSAGE CATALPA

GRAPE VINES BECHTEL'S FLOWERING CRAB

Surplus Stock

FOR SPRING OF 1904.

10,000 Apple, in general assortment, all grades.
8,000 St. Pear, " " " "
10,000 Df. Pear, " " " "
12,000 Cherries, " " " "
3,000 Plums, " " " "
20,000 Peach, in general assortment, $\frac{1}{2}$ to $\frac{5}{8}$ and $\frac{5}{8}$ and up grades.
25,000 Grapes, in general assortment, 1 yr, No. 1

Besides the above we have a choice lot of CURRANTS, GOOSEBERRIES, BLACKBERRIES, RASPBERRIES and STRAWBERRIES.

A choice lot of SHRUBS, ORNAMENTAL TREES, ROSES, EVERGREENS, Etc.

The above is all choice No. 1 stock. We are sure it will please. We invite correspondence.

A. WILLIS, - Prop.
OTTAWA, KANS.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries

W. C. REED, Prop.

VINCENNES, IND.

We offer the following for Spring, a large portion of which is in our storage cellar for early shipment. Also fair assortment of other stock.

Apple, 2 and 3 Year, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

Peach, 1 year all grades, 40 varieties.

Cherry, 1 year, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

Pear, Standard Kieffer, Garber and Wilder. Fair assortment of others.

Plum on Plum European.

Plum on Peach, 1 year, very fine, largely Japans.

Soft Maple, Wiers, Cut Leaved and Elm.

Catalpa Speciosa Seedlings, 1 year.

1851 Knox Nurseries 1904

We offer for Spring 1904, the following thrifty, well-grown stock :
APPLE—3-year. $\frac{3}{4}$ and up and $\frac{5}{8}$ to $\frac{3}{4}$. Grimes, Benoni, Y. Transparent, Gano, Wine Sap, Ben Davis, Duchess, Baldwin, York Imperial, N. W. Greening and a few others.

APPLE—2 year, all grades. Ben Davis, Gano, M. B. Twig, Wine Sap, Wealthy, Golden Sweet, Benoni, and a few others. Can ship 2-year Apple from Topeka, Kansas, if desired.

PEACH—three grades. Good assortment, but largely Elberta and Champion. Very fine trees at right prices.

CHERRY—1-year. Still a few choice trees left.

CHERRY—2 year, $\frac{3}{4}$ and up. A few 100 Belle de Choisey, Baldwin and Louis Phillipi left.

CATALPA SPECIOSA—2 ft.

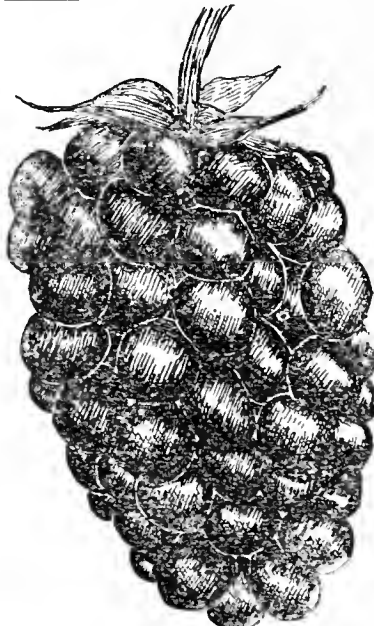
ST. PEAR— $\frac{5}{8}$ to $\frac{3}{4}$. Bartlett largely.

PLUM—2-year, $\frac{3}{4}$ and up. Shippers pride.

For Fall of 1904 and Spring of 1905 we will have a large lot of Cherry, 1-year old, to offer. Let us quote you prices on your wants.

VINCENNES, INDIANA.

H. M. SIMPSON & SONS.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE

Fils Aine,
Ussy, Calvados, France

GROWER AND SHIPPER OF NURSERY STOCK

Ornamentals, trees and shrubs; Evergreens, Conifers, Forest Trees, for spring or fall shipment.

Send for estimates to our sole American agents,

AUGUST RÖLKER & SONS,
P. O. Box 752. 31 Barclay St., New York

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS

RAFFIA FIBRE in Prime Nurserymen's Quality.

PEAR TREES

Fine lot of 2 yrs $\frac{3}{4}$ and up, Stds, Seckel, Koonce, Kieffer, Garber, etc., etc.
Apple 2 yrs. $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, in general assortment
Complete general Nursery stock. Correspondence invited.

South St. Louis Nurseries,
5,600 GRAVOIS AVE., ST. LOUIS, MO.

60 VARIETIES STRAWBERRY PLANTS

THE BEST FOR THE MONEY.

3,000,000 well grown, pure, and nicely put up, well packed plants for sale. My prices will suit you. A full line of all Small Fruit Plants. Submit a list of your wants early for special prices.

La PORTE NURSERY, H. W. HENRY, PROPRIETOR,
60 miles east of Chicago. LA PORTE, INDIANA.

ESTABLISHED 1852

Phoenix Nursery Co.

WE have for Spring shipment a very complete line of Fruit and Ornamental Trees, Evergreens, Shrubs, Roses, Small Fruits, Hedge Plants, Herbaceous Plants, Greenhouse Stock, Etc., Etc. Send list of wants for Spring shipment, Correspondence solicited. Spring Wholesale-List mailed on application.

600 ACRES—13 GREENHOUSES.

P. O. Box 625. BLOOMINGTON, ILL.

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.
HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,
BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of

Highlands Nursery, N. C.

Beacon Building,

BOSTON, MASS.

GRAPE VINES

AND

Gurrant Plants

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

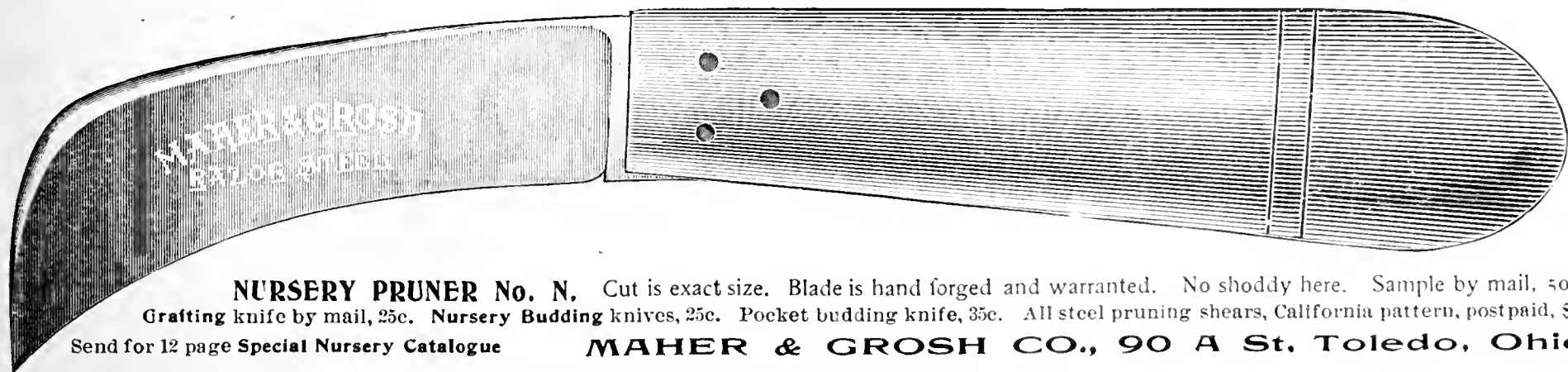
GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.
QUALITY UNSURPASSED.
A fine stock of Campbell's Early.
Catalogue and Price List Free.
Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES



NURSERY PRUNER No. N. Cut is exact size. Blade is hand forged and warranted. No shoddy here. Sample by mail, 50c. Grafting knife by mail, 25c. Nursery Budding knives, 25c. Pocket budding knife, 35c. All steel pruning shears, California pattern, postpaid, \$1.

Send for 12 page Special Nursery Catalogue

MAHER & GROSCH CO., 90 A St. Toledo, Ohio

When writing to Advertisers mention The National Nurseryman.

Grape Vines

those of any reputable grower. A complete general nursery stock; also *Southern Natural Peach Seed*. **STARK BRO'S**
SEND YOUR WANT LIST FOR PRICES. Portland, N. Y., Louisiana, Mo

Stark Grape Nurseries are in the heart of the famous Chautauqua Grape Belt, which produces the finest vines grown in the U. S. An immense stock of the leading sorts, at prices as low as

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS** ❁ ❁ ❁ ❁

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.
Sole Representatives for the United States.

My Prices Should Interest You

Peach Trees, all grades.
Niagara Grapes, 1 and 2 years.
Arbor Vitae, 3 to 4 ft.
Norway Spruce, 2 to 3 and 3 to 4 ft.
Weir's Cut Leaf Maple, all sizes.

10,000 Deutzia Pride of Rochester.
25,000 Concord, Niagara, Catawba and Worden

Grape Vines

2-year, No. 1.

400 bushels Peach Seeds.

The Deutzia at less than cost of imported plants.

W. B. COLE, Painesville, O.

Transon Brothers & D. Dauvesse's Nurseries
BARBIER & CO., SUCCESSORS
16 Route d'Olivet ORLEANS, France.

OUR GENERAL LIST OF

NURSERY STOCKS

Is just issued and may be had from our Agents
Messrs. KNAUTH, NACHOD & KUHNE,
13 William Street, NEW YORK
WRITE FOR IT!

Wood Labels for Nurserymen and Florists

BENJAMIN CHASE, DERRY, N. H.

TREE-BOX LUMBER

We are shipping many of the largest nurseries their Tree-Box Lumber, all sized and ready to nail together, and we are SAVING THEM MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

In car lots only.

Write us today for prices.

GOODWILLIE BROTHERS,

Saw Mills and Factory,
WAUSAU, Wis.

407 New York Life Bldg., Chicago, Ill.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

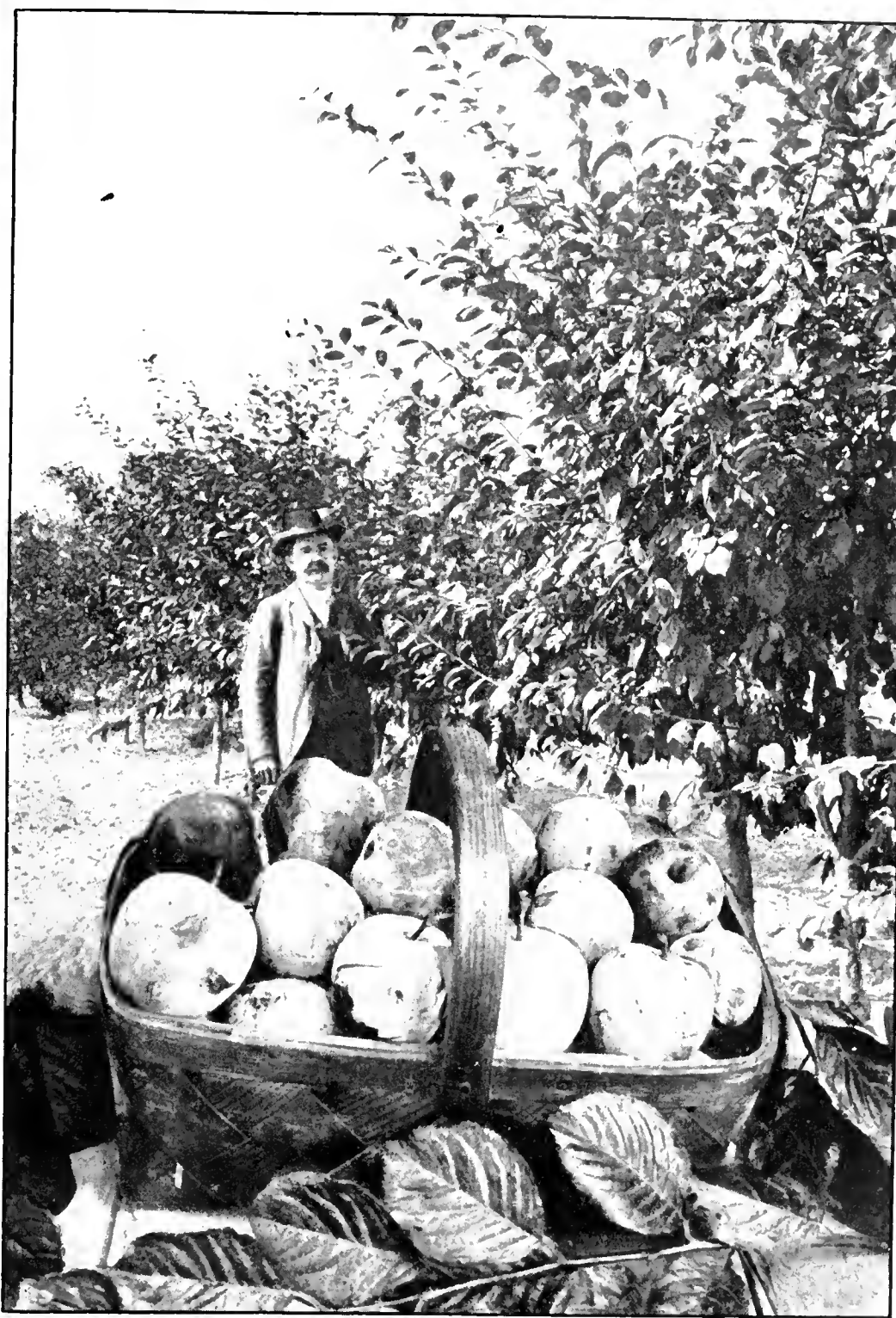
Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

*The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty*



*Two year Maynard Tree and basket of fruit.
 Burbank in the background.*

*Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL*

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902.

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

PEACH

	5 to 8 ft. 3-4 and up	5 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 4 ft. 3-8 to 1-2	2 to 3 ft.
Amsden June.....				75	75	75
Arkansas Traveler		30	50	50	50	50
Admiral Dewey.....	600	125	125	200	100	100
Alexander.....			25	75	124	125
Bokara.....	40	40	50	60	100	100
Belle of Georgia.....	350	600				
Barber.....			40	50	60	100
Bronson.....		25	75	100	125	150
Beauty Blush.....		25	40	40	40	50
Buston's Oct.....			50	75	100	100
Bilyeu's Late.....			100	200	1200	300
Brandywine.....					10	25
Bequet Free.....				100	100	100
Barnard's Early.....			50	75	75	100
Burke.....					250	
Crawford's Late.....	3000	2160	720	3100	2800	1700
Crawford's Early.....		120	580	175	150	
Carman.....	7000	1500	800	500	500	625
Cobler.....	40		40	40	40	40
Crosbey.....	800	600	350	300	100	
Christiana.....	200	150	150	200	200	100
*Connecticut.....				20	20	20
Capt. Ede.....	150	40	40	25		
Chair's Choice.....	1300	600	600	700	400	
Connett's Early.....		240	1000	500	200	
Conklin.....		25	75	100	125	150
Coolidge Favorite.....		25	50	75	75	75
Dover.....		40	50	50	50	50
*Elberta.....	10950	4350	1750	400	1875	375
Early Rivers.....	1200	300	200	200	100	
Engle's Mammoth.....	1600	700	350	350	300	
Emma.....	100	50	50	50		
Everbearing.....		40	40	40	50	70
Early Heath.....					250	125
Early York.....					75	100
Early Toledo.....		35	25	25	75	75
Early Davidson.....		20	40	50	50	50
Eureka.....		25	25	50	50	50
Early Michigan.....		75	75	75	75	100
Fox Seedling.....		200				
Foster.....	700	950	300	75		
Fitzgerald.....	450	100				200
*Frances.....	600	600	500	250	250	
Gold Drop.....				100	50	80
Greensboro.....		100		150		
Geary's Hold On.....	600	300	100	100	100	
Globe.....	160	150	200	350	500	800
Garfield.....				50	75	50
Gordon.....					100	100
Holderbaum.....		40	40	50	50	60
Hale's Early.....	15	25	25	40	40	40
Hieley (Early Belle).....	2000	600	400	200	200	
Hill's Chili.....	400	200	200	200	125	125
Haine's Surprise.....	25	25	35	50	50	50
Heard's Beauty.....			20	25	75	150
Hughes.....				75	75	100
Hobson's Choice.....	80	80	90	70	80	100
Heidelberg.....		50	50	25	25	25
Jennie Worthien.....				75	75	100
Jacque's R. R.....	50	50	75	75	75	75
Kalamazoo.....	2300	500	300	200	100	
Levy's Late.....	100	100	100	144	100	100
Lorentz.....	500	100	100	100	50	50
Lewis.....		50	50	100	100	100
Marshall.....			25	50	75	75
Miss Lolo.....		100	100	100	100	100
Magnum Bonum.....			15	75	100	100
Mamie Ross.....	900	400	300	300	100	
Matthew's Beauty.....	700	200	100		498	
Moore's Favorite.....					700	
Mrs. Bret.....			50	75	100	100
Mary's Choice.....				20	75	75
New Prolific.....	1600	400	200	100		
Old Mixon Free.....	500	1690	1350	2700	1450	850
Old Mixon Cling.....		25	50	50	50	50
Oscar.....			50	100	100	100
Picquet's Late.....	900	400	400	200	200	
Pearce's Yellow.....				42	50	50

PEACH

	5 to 8 ft. 3-4 and up	5 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 4 ft. 3-8 to 1-2	2 to 3 ft.
Reeve's Favorite.....	1100	980	1100	1100	1000	1000
Stump.....	250	800		1100	700	300
Scott's Nonpareil.....			75	75	75	75
Sunrise Cling.....					250	
Steadley.....		25	25	48	100	150
Shipley's Late Red.....	25	50	50	50	100	100
Slapppy.....	500	150	150			
Smock (Beer's).....		1000	170	998	998	
Sneed.....		150	65	65	65	65
Snow's Orange.....	25	25	50	65	65	75
Silver Medal.....		25	25	50	50	50
Smock Cling.....			25	75	150	150
Schumaker.....			50	75	100	100
Switzerland.....			40	75	100	125
*Triumph.....	1200	200	200			
Tillotson.....	300	150	150	150		
Victor.....	10	25	50	50	50	75
Van Meteor's L Oct.....	25	35	35	35	35	35
Ward's Late.....	50	25	50	75	85	10
Waterloo.....		75	75	75		75
Wheatland.....	1300	1700	1900	1900	500	300
Wonderful.....	600	649	600	449	349	200
Waddell.....	1200	1499	700	100	100	
Wager.....	14	16	24	49	40	50
Wheeler's Late.....			49	49	49	49
William's Favorite.....			20	49	74	74
Yellow St. John.....	1000	800	800	1000	499	300
Yellow R. R.....			49	100	100	100

We call SPECIAL ATTENTION to our LOW PRICES for Extra Grade Peach, for Extra Early Spring Shipment.

Send for List of 2 year Apple Trees.

KIEFFER PEAR

	3-4 and up 5 to 7 ft.	5-8 to 3-4 5 to 6 ft.	9-16 to 5-8 4 to 5 ft.	3-8 to 1-2 31-2 to 4 1-2 ft.	3 to 4 ft. whips	2 to 3 ft. whips
	10,000	8,000	7,000	5,000	4,000	2,000

APPLE SCIONS READY.

2 and 3 year GRAPE VINES — Concord, Moore's Early and Agam.

5,000 CAROLINA POPLARS.

ASPARAGUS ROOTS—2 and 3 year.

STRAWBERRY PLANTS

For sixteen years we have made strawberry plants a specialty for the wholesale trade, and we are proud to say that our stock of plants this season is in every way first-class, grown on our new land, that gives the plant an abundance of fibrous roots, and free from all diseases.

Our plants are handled in the very best possible manner, packed in slatted crates, and will reach any part of the United States in safety.

For early orders, we recommend sending by freight, which is a great saving. After April 10th, if the plants are to be shipped over three hundred miles, we would recommend by express. Early orders are urgently requested for best success. Our prices are ridiculously low, considering the price of labor.

FRESH DUG

20,000—Auto	5,000—Hero	400,000—Parsons
50,000—Aroma	125,000—Johnson's Ea	175,000 Rough Rider
5,000—Bush Clust.	50,000—Jessie	50,000 Rio
400,000—Bubach	300,000—Kansas	800,000—Star
60,000—Bismark	500,000—Louis Hub'h	800,000 Sharpless
60,000—Beder Wood	10,000—Lovetts	400,000—Sample
120,000—Clyde	12,000—Livingston	10,000—Smith
300,000—Crescent	20,000—Lester Lovett	20,000—Superior
10,000—Dayton	10,000—McKinley	900,000—Tennessee
250,000—Early Hath.	10,000—Mark Hanna	3,000—Thompson's E
		Early
100,000—Exeelsior.	8,000—Marie	4,000—Unele Jim
300,000—Eleanor	60,000—Marshall	300,000—Warfield
400,000—Gandy	210,000—Michell's Ear.	75,000—Wm. Belt.
130,000—Gladstone	60,000—Nick Ohmer	9,000—Yant
75,000—Glen Mary	50,000—Ocean City	
800,000—Haviland	30,000—Parker Earle	

Send for New List To-day.

J. G. Harrison & Sons,

BERLIN, MD.

MAR 11 1904

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March, 1904

Continental Nurseries



*The largest and most complete
Nursery plant in the United States.*

*We have a full line of Nursery
Stock the coming year for the whole-
sale trade.*

*We should be pleased to receive
your list for estimate.*



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville

Nurseries



OFFER one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.

CALL ESPECIAL ATTENTION TO OUR STOCK FOR SPRING OF
1904 OF

Standard and Dwarf Apples, Standard and Dwarf Pears, Cherries, Plum and Peaches.

Grape Vines — Large lot Fredonia grade.

Small fruits a fair stock of most kinds. Many leading varieties will be short. Early orders advised. Our plants are graded, handled and packed right.

Roses—Hybrid Perpetual and Climbers including the largest lot of Crimson Ramblers in the country.

Shrubs, Climbing Vines, Perennial Plants—In fine assortment including fine lot Ampelopsis Veitchii, Clematis Paniculata, California Privet, Berberry in variety, Japan Quince, etc.

From Holland—Our importations are large and stock never in better condition. Rhododendrons, Hardy Azaleas, Tree Roses, Tree Hydrangea, Magnolias with ball. Flowering Thorns, Purple Filberts, two and three year Clematis, etc.

Some Bargains in light grade Apple and Peach.

Glad to estimate on your list of wants.

Descriptive Catalogue, complete new edition, one of the best and most comprehensive ever issued, free to the trade.

Visitors always welcome. The new C. P. & A. Electric R. R. has stop on our grounds.

The Storrs & Harrison Co.

PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

Shrubs

Evergreens

Roses

Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on request.

ELLWANGER & BARRY,
Nurserymen—Horticulturists.
MOUNT HOPE NURSERIES,
Rochester, N. Y.
Established 1840. Mention this publication.

Southern Nursery Company

WINCHESTER, TENN.

Our Nurseries are the largest in the state. We have over 500 acres in actual Nursery Stock.

CLEAN and HEALTHY

Nothing over two years old. Apple, Peach, (also 500,000 June-budded Peach,) Pear, Cherry, Mariana Plum Cuttings. Send us a list of your wants.

Southern Nursery Company

WINCHESTER, TENN.

When writing to Advertisers mention The National Nurseryman.

Advantageous offers upon many

SCARCE VARIETIES are to be found in **OUR NEW PRICE-LIST**

If you have not received it, write for a copy to-day.
Orders are coming in very rapidly but we can still offer, in good assortment, splendid stocks of

<p>Roses <small>(On-own-roots and budded)</small></p> <p>Climbing Vines</p> <p>Flowering Shrubs</p> <p>Ornamental Tress <small>(Including C. L. Birch)</small></p> <p>Conifers</p> <p>Herbaceous Plants</p> <p>Currants</p> <p>Cherries</p> <p>Standard Pears</p> <p>Dwarf Pears</p>	<p>Clematis</p> <p>Paeonias</p> <p>Gooseberries</p> <p>Apples</p> <p>Plums</p> <p>Quinces</p>
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SEND FOR OUR PRICE-LIST. Use printed stationery or enclose business card to show that you belong to the trade. Sent only to nurserymen, florists and dealers.

JACKSON & PERKINS COMANY
NEWARK, NEW YORK

Have you seen
The January Number of The Fruit Grower?

It is beyond question the best thing ever printed in the way of a fruit paper. Handsomely illustrated, 52 pages, cover in colors. The edition comprised 35,575 copies—sworn. We still have on hand a few extra copies and will send one free if you write at once.

The March Number of The Fruit Grower

Will be equally as good and will be of more than usual interest, for the reason that the subject of spraying will receive special attention. Are you represented with an "ad." in this March edition? If not, you should send copy at once. Last forms will close March 14th.

Remember, every reader of the Western Fruit Grower is a buyer of Nursery Stock
Rate \$2.10 per inch. Address at once,

The Fruit Grower Co.
331 S. 7th Street, St. Joseph, Mo.
When writing to Advertisers mention The National Nurseryman.

E. T. DICKINSON, CHATENAY SEINE, FRANCE

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

OSAGE ORANGE HEDGE PLANTS

One and two year old. Make the best fence, screen, wind break, and
grove. For fence posts, telegraph and telephone poles, most
lasting timber known. For best plants and prices write

A. E. WINDSOR, - HAVANA, ILL

Strawberry Plants and Seed Potatoes.

You can make more money if
you plant intelligently. Write
and tell us about your soil.
We'll send you our Free Descriptive
Book. Over 100 varieties.

FLANSBURG & PEIRSON,
Leslie, Mich.



Evergreen

AND

Forest Tree Seedlings

ORNAMENTAL TREES,
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons

Waukegan Nurseries
WAUKEGAN, - - ILL.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD.

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

The Fraser Nursery,

JOHN FRASER, Prop.

HUNTSVILLE, - - - Ala.

OFFERS FOR IMMEDIATE OR LATER SHIPMENT

Small grade June Buds.

Peach in Dormant Bud.

Standard Pear one and two years old.

Apple one year.

A large stock of Magnolia Grandiflora one and
three years old.

H. P. Roses, California Privet one year.

Hydrangea, P. G. Altheas and Carolina
Poplar.

WRITE FOR PRICES.

APPLE GRAFTS

We have about 150,000 good *Apple Grafts* to offer which will be
made to your order. Also Russian Mulberry, Black Locust and Osage
Orange seedlings in good supply. Favorable prices.

J. A GAGE, Beatrice, Nebraska

200 Bsh. fine natural Peach
seed FOR SALE

IHLOFF NURSERY

OKENE, - - - OKLA.

RASPBERRIES

Cumberland (new)
Eureka
Gregg
Kansas
Ohio
Palmer
Souhegan
Conrath
Lotta
Gault
Mammoth Cluster
Munger (new)
Cuthbert
Golden Queen
Hansell
Loudon
Miller
Marlbrough
Turner
Rancoeas
Columbian
King (new)
Shaffer Col.
Haymaker (very fine)
Cardinal (new)

Surplus Stock

Good Assortment in
Storage for Early Ship-
ments--Prices right

ASPARAGUS

Our Asparagus is extra well
grown and sure to please you.
Prices, we think, very low.

Conover's Col., 1, 2 and 3 years
Barr's Mammoth, 1, 2 and 3 years
Palmetto, 1, 2 and 3 years
Columbian White, 1, 2 and 3 years
Elmira, 1, 2 and 3 years

CUTTINGS

5,000 Currant Cuttings and
Gooseberry Layers, also Quince
Cuttings.

Rhubarb, Horse Radish, Grape
Vines, Currant and Gooseberries
Catalogue and Wholesale Price
List Free

BLACKBERRIES

Crystal White
Early Harvest
Erie

Eldorado
Kittinany
Lawton
Maxwell

Minnewaski
Early King
Rathbun

Mersereau
Ancient Britton
Ohmer

Stone's Hardy
Snyder
Taylor

Wilson's Early
Wilson Jr.
Agawam

Wachusett
Iceburg

Premo Dewberry
Lueretia Dewberry
Austins Dewberry
Japanese Wineberries
June Berries, 12-18 in.
June Berries, 18-24 in.
Logan Berries

W.N. Scarff, New Carlisle, O.

H. J. WEBER & SONS NURSERY CO.

Nursery Station

ST. LOUIS, MO.

Offer a good line of No. 1, 2 year Apple, 1 year Peach, 2 year Kieffer and Garber, Cherry 1 and 2 year, etc.

Also large selection Ornamental Trees such as Maple, 1 to 2 inches caliper; Elm, Poplar, Cypress Linden, etc.

Fine selection Everblooming Roses, also H. P.

Send list of wants for prices.

*We are in the market for large
Specimen Shrubs, Evergreens, Etc.
Send us list with your best prices*

1866

1904

Maple Grove Nurseries

WATERLOO, N. Y.

Surplus Stock for Spring Shipment

Good General Assortment

Especially Fine Lot of

APPLES and PEACHES

Send Wants List for Quotations

PEIRSON BROTHERS

Proprietors

SURPLUS STOCK for SPRING TRADE

APPLES

Leading kinds. 1st, 2d and 3d sizes.

CHERRIES

2 years. Sours. $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

PEACHES

Elberta, Carman, Champion, Kalamazoo, etc. Three sizes, all in cellars.

WANT Plums, Kieffer Pear and Strawberries. Prices Low.

The Albaugh Nursery and Orchard Co.

PHONETON, OHIO

THE WILLADEAN NURSERIES

Offer in surplus for SPRING 1904, all kinds of first class Nursery Stock

SPECIAL LOW PRICES

will be quoted on Apples, Plums, Cherry and Asparagus, Sweet Gum, Tulip, Silver Maples, Am. Elm, Scotch Elm, Oaks in variety, Magnolia Accuminata, Ash in variety, Catalpas, Cypress, Yellow Wood, Red Bud, Am. Sycamore, Paulownia and others. All sizes from 4 to 15 feet. Spirea Van Houtti, Hydrangeas, Weigelas, Lilacs, Berberry, Deutzias, Cut Leaf Elder, Purple Fringe, Syringas, Snowberry and many other Shrubs. Seedlings such as Catalpas, Mulberrys, Oaks, Maples, Sweet Gum, Ailanthus, Hackberry, Red Bud, Calycanthus, Snowballs, Hydrangeas, and others, Paeonias, Perennials, etc. Send your list of wants for special prices. Correspondence solicited.

The Donaldson Co.

Successors to DONALDSON & GIBSON

WARSAW, KY.

WOOD LABELS OF EVERY DESCRIPTION

For Nurserymen and Florists

DAYTON FRUIT TREE LABEL CO.

South Canal Street, Dayton, Ohio

At a Bargain

Twenty thousand 2 and 3 year Baldwin and Ben Davis Apple Trees, Kieffer Pear Scions, Lovetts, Johnson & Warfield Strawberry Plants, or will exchange above for stock we need.

CHARLES ERNST, Moscow, Ohio

HARDY TREES AND SHRUBS OF EVERY DESCRIPTION.

C. ESCHWEILER, - The Nurseries

OUDENBOSCH, (HOLLAND.)

CATALOGUE FREE ON APPLICATION.

BARGAIN SALE

100 Acres Ideal Nursery Land and Nursery, one mile out from thriving town of Emporia, Va. A first class nurseryman at head of propagating. Three No. 1 salesmen contracted with and a good trade built up outside of agent's sales and well advertised. As good a place for a nursery as there is in the United States. Land makes Apple and Pear in two years; other stock in one year. **Come and inspect.**

Address, **EMPORIA NURSERIES, Box 117, Emporia, Va.**

The Dansville Willow and Twine Looping Machine

Patented. Price \$10 F. O. B. Will exchange for first class nursery stock, F. O. B. 50 machines sold at full price at two sessions of American Association of Nurserymen. 150 machines now in use. References: Ellwanger & Barry, Chase Bros., Storrs & Harrison, R. G. Chase & Co., Brown Bros., and a hundred others now using the machines, if wanted. Weight, 6 lbs.

G. C. STONE, Nurseryman
DANSVILLE, N. Y.

WANTED

A good Nursery Foreman who is capable of handling men and understands transplanting thoroughly. First-class position for a first-class man.

THE COTTAGE GARDENS COMPANY, Queens, Long Island, N. Y.

Pink Dogwood, 10 Ft. High
4 times transplanted. Koster's Blues Spruce
Japanese Maples Specimens up to ten feet,
full heads, three times transplanted. Long Distance Telephone 506 W. Orange

HENRY E. BURR

Irvington and Boyden Avenues, South Orange N. J.

WM. N. HARRISON & SONS Lebanon Springs, N. Y.

Nursery grown and selected Ornamental Trees, Shrubs, Vines, Trailers and Herbaceous Stock. Wholesale orders solicited from Landscape Architects, Parks and Cemeteries. Send for catalogue.

Surplus Roses

Clematis, 2 year, 1st class,
Andre, Duchess Henryi,
Jackmanii, Ramona, Coccina
and Paniculata



1,000 No. 1, own roots,
PINK RAMBLER.
1,000 No. 2, own roots,
GEN. JACQUIMINOT

Get Our Prices

GEORGE BROS., Penfield, N. Y.

Georgia Nursery For Sale

40 acres best land in Cobb County.

Full line of Young Stock.

For further information address,

NURSERY, P. O. Box 182, AUSTELL, GA.

1846

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E. Smith & Sons

Geneva, N. Y.

Are offering special
inducements on all
lines of Nursery Stock



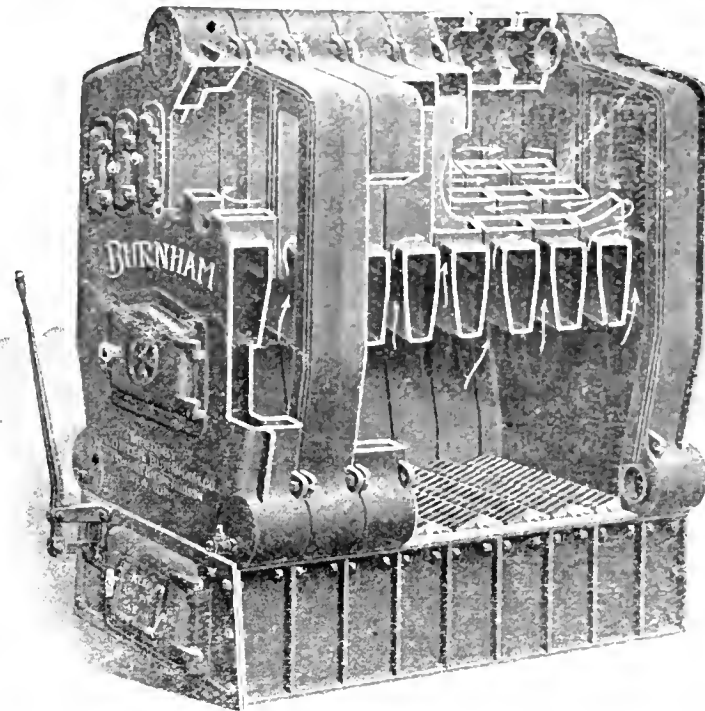
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Send List of Wants*

"BURNHAM" SECTIONAL HOT WATER

ARE THE MOST
RELIABLE, DURABLE AND
ECONOMICAL

BOILERS

Greenhouse Heating and Ventilating Catalogue mailed from New
York office on receipt of 5 cents postage.
QUICKLY SET, TIGHT JOINTS AND EASILY MANAGED



Lord & Burnham Company

Horticultural Architects and Builders and Manufacturers of Heating
and Ventilating Apparatus

NEW YORK OFFICE: GENERAL OFFICE AND WORKS:
ST. JAMES BLDG., BROADWAY IRVINGTON-ON-HUDSON, N. Y.
AND 26TH STREET

University Avenue Nurseries

ESTABLISHED 1865

The CHARLTON GRAPE

Has been awarded Gold and Silver
Medals, Bronze Medals and Certificates
of merit. The highest flavored **Hardy
American Grape**, SUPERB IN
QUALITY. Equals Foreign Grapes.
Send for descriptive catalogue of it.

We also offer selected 2 yr. Industry, Keep-
sake and Whitesmith Gooseberries. Also the
New Gooseberry Victoria. A strong grower,
more prolific, and better flavored than Industry.

Soleil d' Or, strong 2 yr. plants. **Nat.
Holland Plants**, better ones.

Flowering Shrubs, New Hardy Phloxes,
Ampelopsis, field grown, Clematis, etc.

John Charlton & Sons,
ROCHESTER, N. Y.

? What Nurseryman ?

Wants retail office man of fifteen years experience? Competent to handle all branches—including packing yard. Good judge of stock; an originator and a worker.

Advertiser holds position paying \$1,800 per year but can make himself worth more with larger concern.

Address "CANADIAN," care National Nurseryman.

4,000,000 PEACH TREES

Largest stock of Peach grown by any one man in the United States. Write me before you place your order for Fall of 1903 and Spring of 1904.

TENNESSEE WHOLESALE NURSERIES,
J.C. HALE, Proprietor. Winchester Tenn.

ROSA MULTIFLORA JAPONICA

Any size and quantity you wish.

Send for our price list Field Grown, Own Root Roses.

CALIFORNIA ROSE CO.
Los Angeles, Cal.

ONLY FIRST CLASS QUALITY

SHIPMENT TO ALL COUNTRIES

16 GOLDEN MEDALS

52 SILVER MEDALS

GOLDEN MEDAL, PARIS, 1900

PAUL HAUBER Nurseryman

TRAINED FRUIT TREES A SPECIALTY

TOLKERWITZ - DRESDEN
(GERMANY)

Branch Nursery for Evergreens

Schweizermühle- Königstein

Correct trained fruit trees in all shapes and in the best kinds fit for this country.

Standard Apple, Pear, Cherry, Plum, Peach and Apricot Trees.

Standard Gooseberries and Currants (3-4 feet high).

Rose Bushes as well as Standard Roses.

Strawberries and Evergreens.

Prices on Application

ILLUSTRATED CATALOGS FREE ON REQUEST

The Shenandoah Nurseries

SHENANDOAH
I O W A

We have in storage

at ROCHESTER, N. Y., for early spring shipment, the following stock. Same is well-graded and first-class in every respect:

APPLES—general assortment, $\frac{3}{4}$ inch and up.
PEARS—standard, including Kieffer, $\frac{3}{4}$ and up, $\frac{5}{8}$ - $\frac{3}{4}$.
PLUMS—Eup. and Jap., $\frac{3}{4}$ and up, $\frac{5}{8}$ - $\frac{3}{4}$, $\frac{1}{2}$ - $\frac{5}{8}$.
CHERRIES—sour, good assortment, $\frac{3}{4}$ and up, $\frac{5}{8}$ - $\frac{3}{4}$, $\frac{1}{2}$ - $\frac{5}{8}$, $\frac{3}{8}$ - $\frac{1}{2}$.
GRAPES—good assortment, Fredonia grown.
NOR. MAPLE—5-6, 6-8, 8-10 ft.
C. L. W. BIRCH—4-5 and 5-6 ft.
TEAS. WEEP. MULBERRY—1 yr. hds.
CURRANTS.
ROSES—H. P. and Crimson Rambler.
TREE ROSES—Clematis.
WEIGELIAS—SPIREAS—SYRINGAS.
HYDRANGEAS—Bush and Tree Form.
HORSE CHESTNUT—5-6 and 6-8 ft.
KIL. WILLOWS—1 and 2 yr. hds.

Send list of wants for prices, after March 5th, 1904, to Mr. J. H. Wallace, Rochester, N. Y., in care of Jackson's Temperance Hotel, or to D. S. Lake, Prop., Shenandoah, Iowa.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

APPLE SCIONS

A fine lot of all the leading sorts.

Write for prices. **STARK BROS.** Louisiana, Mo.

POTS! POTS! POTS!

We are manufacturers of **Standard Flower Pots** equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY, 213-23 Pearl Street
NORRISTOWN, PA.

Beechwood Nurseries

I have a full line of PEACH TREES (all grades) in surplus; also 500 fine 3-year Ben Davis to offer.

ALL TREES FUMIGATED.

C. L. LONGSDORF

FLORADALE, PA.

Century Sprayer.

Best barrel sprayer made. Capacity and adaptability to suit all requirements. These are features: Its valves are bronze balls. Cylinder and plunger are brass. Indestructible packing crimps. Large air chamber. Agitator that agitates. Its low

PRICE PLEASES
We make twenty styles sprayers. Every need specially met with Hand, Bucket, Knapsack, Power Sprayers. Spraying catalog free. Booklet on insects and plants and fruit diseases 10c.

THE DEMING CO., Salem, O.
Henton & Hubbell, Western Agents
Chicago, Ill.



Peach Trees Full assortment of varieties, Ialseiz s

Kieffer Pear 2-year, 3/4 up, on Imported Stocks.

Apple 2-year, 3/4 up and 5/8 to 3/4

Ben Davis, Gano, York Imperial, Baldwin.

Above surplus in carloads or smaller quantities for winter or early spring shipments.

All grown on Missouri River upland, 50 to 250 ft. above the flood line.

WRITE FOR PRICES.

New Haven Nurseries

NEW HAVEN, MO.

P. O U W E R K E R K

1123 SUMMIT AVENUE

JERSEY CITY, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Paeonias, Magnoleas, Box Trees, Fancy Conifers, Hydrangeas and Shrubs our specialties at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

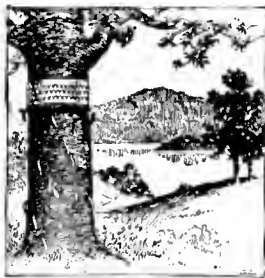
The Delaware Nurseries

D. S. COLLINS, Manager,

MILFORD, DELAWARE.

Offer 200,000 Peach Trees In General Assortment, for Spring 1904 Delivery

4-5 feet, 3-4 feet, 2-3 feet. Prices given on application.



THE ARNDT

TREE PROTECTOR

A perfect, inexpensive protection against all creeping and crawling insects. Agents wanted everywhere.

WRITE AT ONCE **Michigan Cut Flower Exchange**

WM. DILGER, Mngr., Sole Distributors,
DETROIT, MICH., U. S. A.

RAFFIA

BEST grades of Madagascar Raffia for Nurserymen.

Orders for bale (225lbs.), or more from stock or for direct import. Write for prices.

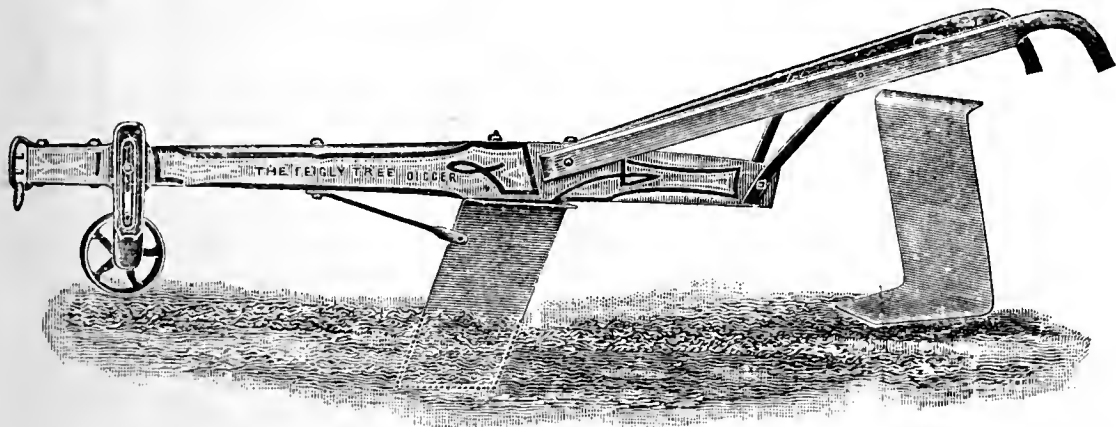
McHUTCHISON & CO., 218 Fulton St., NEW YORK.

PEACH TREES

Best varieties First class 9-16 and up.

Special low prices to close out surplus.

THOMAS MEEHAN & SONS, Inc. Dreshertown, Mont'g Co., Pa.



THE IMPROVED FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

D. FEIGLY, Medway, O. Sole Agent. Send for Circular.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1903, AND SPRING, 1904

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

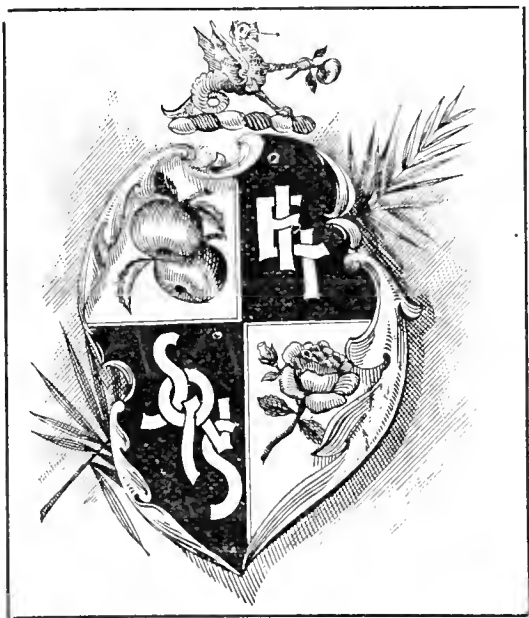
All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited

When writing to Advertisers mention The National Nurseryman

No Frozen Trees! No Black-Heart!

STANDARD

APPLE AND PEAR

In Car Load Lots.

Complete assortment of varieties; heavy grades.

Write for prices.

Send want list.

WE EQUALIZE FREIGHT RATES.

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

12,000 Peach 7 to 7½ feet, also 5 to 6 and 4 to 5 feet

Twelve kinds—Elberta, Mtn Rose, Stephens R. R. Sneed, E. Rivers, Crawford Late, Stump, Chairs Choice, Wheatland, Old Mixon Free, etc. Clean, bright trees, **not dug last Fall**. Osage Orange, Lombardy Poplars, 10 to 15 feet, fine, stocky; Cal. Privet, Hemlock, Spruce, 3 ft.; G. Queen and Marlboro, Raspberries, etc.

Josiah A. Roberts

MALVERN, PA.

WE OFFER 200,000 ELBERTA JUNE BUD PEACH TREES for immediate shipment.

To close out stock at once will make special prices for the next thirty days.

CHICKAMAUGA NURSERIES,

CHATTANOOGA, TENN.

JAPANESE SPECIALTIES

In NURSERY STOCK, BULBS, etc.,
grown in our own Nurseries in Yokohama
and Tokio, Japan.

MAPLES, CONIFERS,

ORNAMENTAL TREES AND SHRUBS,

TREE AND HERBACEOUS PAEONIES,

IRIS KÆMPFERII, the latest varieties,

LILIES, ETC.,

CHESTNUT AND WALNUT SEED.

Prices free ex cars New York, duty included.
Sound arrival guaranteed. *Write for our trade list.*

SPECIAL PRICES FOR LARGE QUANTITIES and
hand colored plates for inspection on demand.

Suzuki & Iida

31 Barclay St., NEW YORK.

21-35 Nakamuramachi, YOKOHAMA.

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L. R. TAYLOR & SONS

TOPEKA, KANSAS

PROPRIETORS

Topeka Nurseries

Headquarters for

Apple Trees

Spring, 1904. All two-year trees. large assortment smooth and healthy.

Fair supply of Peach, Cherry and Pear Trees.

A few Japan Pear and No. 3 Apple Seedlings.

All stock offered was above the flood line and is strictly first-class.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

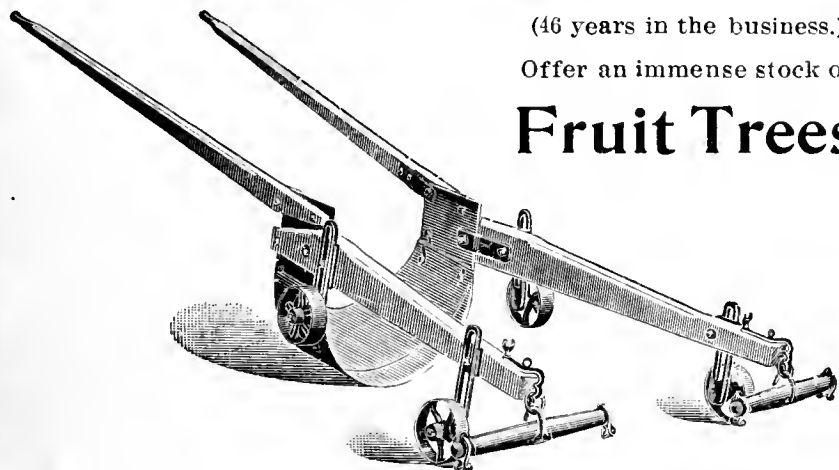
A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

L. G. Bragg & Co.

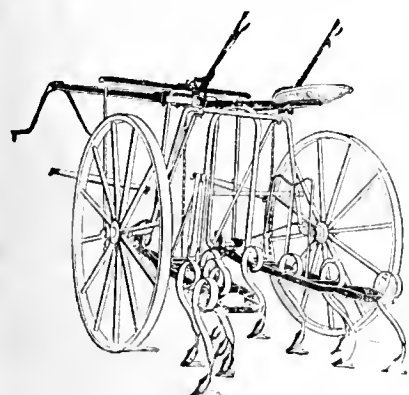
(46 years in the business.)

Offer an immense stock of

Fruit Trees



Ornamental Trees, Roses, Etc.



At wholesale and retail. Agents wanted. We give large planters wholesale rates.

"Bragg's Common Sense Tree Digger" has no peer. It is being used by most of the principal nurserymen.

Bragg also manufactures the "Jumbo Cultivator." Nurserymen appreciate the Jumbo, as they can cultivate all sizes of stock from one inch to six and seven feet. Farmers also appreciate it as they can cultivate corn from start to finish.

Correspondence solicited.

L. G. Bragg & Co.

KALAMAZOO, Mich.

When writing to Advertisers mention The National Nurseryman.

Dreer Specialties in Hardy Plants.

Hardy and Tender Water Lilies and Nelumbiums. Most extensive collection, including all the standard varieties as well as a complete assortment of American and French novelties.

Hardy Perennial Plants

Most extensive collection in America.

Japanese Anemones, Aquilegias, Hardy Asters, Campanulas, Hardy Chrysanthemums, Delphiniums, Helianthus, Hemerocallis, Double Hollyhocks, Iris, Paeonias, Phlox, Pinks, Poppies, Primroses, Stokesia, Rudbeckias, Tritoma Pfitzeri, etc.

Hardy Vines

Ampelopsis, Akebia, Aristolochia, Clematis, Ivies, Wisterias, etc.

Roses

A most complete list of Hybrid Perpetual and Everblooming varieties. Our Roses have been all potted during the winter, stored in cold houses, consequently can be shipped until late in the season.

The New Blue Conifer, Retinispora Sanderi

A most important addition to the list of Evergreens

Rhododendrons, Hardy Azaleas, Hydrangea Paniculata Grandiflora.

For a complete list of Hardy Plants as well as for a full line of Decorative Florists' Stock such as Palms, Ferns, Rubber Plants, Pandanus, Summer Flowering Bulb, etc., see our Quarterly Wholesale List which is mailed free to the trade on application.

HENRY A. DREER, Philadelphia, Pa

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BRIDGEPORT NURSERIES

Spring—1904—Bargains

Cherry— $\frac{3}{8}$ to $\frac{1}{2}$ in., $\frac{1}{2}$ to $\frac{5}{8}$ in., $\frac{5}{8}$ to $\frac{3}{4}$ in. and $\frac{3}{4}$ in. and up; also XX. Largely Early Richmond, Montmorency, Dye House, etc.

Plum— $\frac{3}{8}$ to $\frac{1}{2}$ in., $\frac{1}{2}$ to $\frac{5}{8}$ in., $\frac{5}{8}$ to $\frac{3}{4}$ in., and $\frac{3}{4}$ in. and up. Largely Lombard, Geuii, Bradshaw, Shipper's Pride, Burbank, Abundance, etc.

Pear, standard and dwarf— $\frac{3}{8}$ to $\frac{1}{2}$ in., $\frac{1}{2}$ to $\frac{5}{8}$ in., $\frac{5}{8}$ to $\frac{3}{4}$ in. and $\frac{3}{4}$ in. and up. Largely KIEFFER, B. D. Anjou, Bartlett, Sheldon, Clapp, Flemish Beauty, etc.

Apple—3 to 4 ft whips, $\frac{1}{2}$ to $\frac{5}{8}$ in., $\frac{5}{8}$ to $\frac{3}{4}$ in. and up.

Currants—FAYS, CHERRY, RED DUTCH, VICTORIA, WILDER, etc.

Also PEACH and good general assortment of other stock.

Above, all in storage, ready for shipment any day on receipt of orders

These CHERRY, PLUM and PEAR are all 1 and 2 yr., nice smooth stock, strictly first-class of grades and in good condition.

Prices in quantity quoted on application. Write us stating quantity and grades wanted. We have in above some good BARGAINS for EARLY ORDERS. See Trade List for more complete lists and prices.

Good stock of 2 yr. imported and home grown ROSES. Also IMPORTED APPLE, MYROBOLAN PLUM, PEAR, CHERRY (Mahaleb), and QUINCE Stocks.

Spades—The BEST and CHEAPEST. **Excelsior** (baled)—The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE—cheaper and far superior to Moss. **Box Straps**—SOFT STEEL.

Our **storage** and **shipping** facilities are unsurpassed.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport, Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

Trade Winners, We Have Them

Apple, $\frac{3}{4}$ in. and up, 5 to 7 feet. Apple, $\frac{3}{4}$ in. to $\frac{1}{2}$ in., 5 to 6 feet.
" $\frac{1}{2}$ in. to $\frac{3}{4}$ in., 4 to 5 feet. " 7-16 to $\frac{1}{2}$ in., 3 to 4 feet.

Heavy on Ben Davis, York Imperial, Baldwin, Gano, Wine Sap, M. B. Twig, and other leading sorts.

PEARS—A fine lot of Garber, Keiffer and Clapps' Favorite in the two upper grades.

PLUM ON PEACH, one year, $\frac{3}{8}$, $\frac{1}{2}$ to $\frac{3}{4}$, 7-16 to $\frac{1}{2}$. Varieties, Abundance, Burbank, Wickson, German Prune, Duans Purple, Bradshaw, and a few others.

Car load lots a specialty, let us figure on your want list for this fall and next spring. Correspondence solicited.

The Village Nurseries

HARNEDSVILLE, PENNA.

WE offer following stock, finest grade, at Geneva, N. Y. and quote low prices:

White Thorn and Paul's dble. Flg. Thorn.
Altheas, all colors. Spirea Van Houtte.
Deutzia Gracilis 2-3 ft.
Clematis Paniculata XX and first-class.
Cal. Privet, heavy.
Am. Arbor Vitae, 3-4 ft. and 2-3 ft., extra quality.
Siberian Arbor Vitae, 2-3 ft. Irish Juniper 3-4 ft.
Asparagus, 2 year, five varieties.
Sweet Apples, four varieties.
Crab Apples, five kinds.
Yellow Transparent Extra, 2 and 3 year, cheap.
Elberta Peach.
Kieffer Pear, fine 2 and 3 year blocks, cheap.
Bartlett, Clapp's, Seckel, Etc.
Sour Cherries.

WHITING NURSERY CO.

BOSTON, MASS.

Grove Hall.

GULF GYPRESS

Greenhouse Material

CUT AND SPLICED READY FOR ERECTION
Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus

GLASS at Wholesale

Try our Seal Tight Liquid Putty
Sample Gallon, 75 cents

S. JACOBS & SONS

MANUFACTURERS

1365 to 1373 Flushing Avenue
BROOKLYN, N. Y.

We furnish everything for building.

Send for prices and catalogue



BOX STRAPS

LIGHT SHEET STEEL STRAPS.

Averaging about an inch in width. Any lengths up to 63 inches.

The best and cheapest material on the market for the purpose. Soft, tough, strong and easily applied. A wire nail can be driven through without previous punching. Write for Price List.

References, GEORGE PETERS & Co., Troy, Ohio.

WARD-DICKEY STEEL COMPANY,

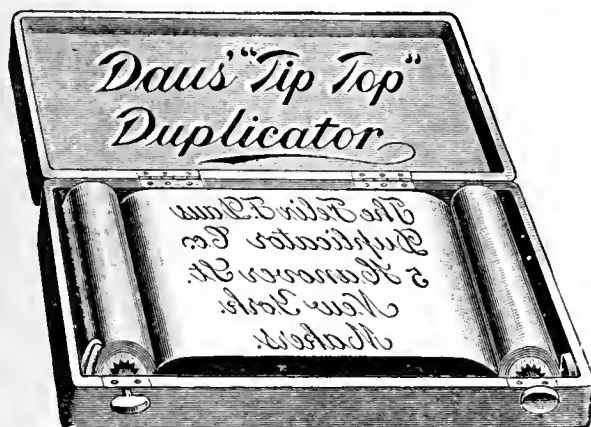
Manufacturers of Planished Sheet Steel.

Indiana Harbor, Ind.

WANTED

Competent man who thoroughly understands packing and shipping specimen nursery stock. First class man can secure a permanent position.

THE COTTAGE GARDENS COMPANY, Queens, Long Island, N. Y.



WHAT IS "TIP-TOP"? ... DAUS' TO PROVE

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making 100 copies from Pen-written and 50 copies from Type-written original we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33½ per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

IN STORAGE

We offer for spring, 1904 one of the largest stocks we have ever carried.

Have You Seen our Wholesale List Issued February 1st?

Can also supply the larger grades of the same varieties as named below. If interested write. Iowa grown trees.

APPLES.	4 to 5 ft. ½ to ¾	APPLES.	4 to 5 ft. ½ to ¾	APPLES.	4 to 5 ft. ½ to ¾
Anisim.....	35	Jersey Black.....	80	Red Win. Pearmain.....	100
Arkansas Black.....	240	Jonathan.....	3530	Red Win. Sweet.....	109
Aut. Strawberry.....	170	Kaump.....	70	Romanstem.....	190
Bailey Sweet.....	20	King of T. Co.....	45	Rome Beauty.....	60
Baldwin.....	180	Lankford.....	130	Rox Russett.....	149
Bayard.....	120	Lansingburg.....	90	Salome.....	255
Ben Davis.....	3290	London Sweet.....	54	Scott's Winter.....	360
Benoni.....	10	Longfield.....	237	Seek-No-Further.....	30
Black Annette.....	870	L. R. Romanite.....	140	Sheriff.....	30
Chenango.....	10	McMahon.....	235	Staymen's Winesap.....	320
D. W. M. Blush.....	160	Mam. Blk. Twig.....	615	Smokehouse.....	20
Duchess.....	2160	Mann.....	160	Smith's Cider.....	15
Early Harvest.....	975	Milam.....	120	Spitzenberg, E.....	25
Early Pennock.....	80	Milwaukee.....	27	Summer Pippin.....	50
Ea. Strawberry.....	69	Mo. Pippin.....	225	Stark.....	70
Fall Orange.....	103	Northern Spy.....	60	Sweet Bough.....	30
Fall Pippin.....	67	N. W. Greening.....	1620	Sweet June.....	68
Fameuse.....	220	Par. Win. Sweet.....	50	Talman Sweet.....	70
Gano.....	1780	Pat. Greening.....	365	Utter's Red.....	292
Gravenstein.....	90	Peerless.....	53	Wagner.....	60
G. G. Pippin.....	518	Perry Russet.....	240	Walbridge.....	715
Haas.....	90	Peter.....	157	Wealthy.....	960
Hibernal.....	230	Pewaukee.....	390	White Pippin.....	330
H. Nonsuch.....	145	Pound Sweet.....	190	Willow Twig.....	255
Huntsman.....	120	Price's Sweet.....	210	Winesap.....	615
Isham Sweet.....	100	Rambo.....	210	Wisconsin Russett.....	103
Iowa Beauty.....	49	Ramsdell Sweet.....	190	Wolf River.....	330
Iowa Blush.....	420	Red Astrachan.....	520	Yel. Belleflower.....	110
Ingram.....	145	Red June.....	1320	Yel. Transparent.....	1280
Janet.....	1190	R. I. Greening.....	90	York Imperial.....	265

CRABS.	4 to 5 ft. ½ to ¾	CRABS.	4 to 5 ft. ½ to ¾	CRABS	4 to 5 ft. ½ to ¾
Alaska.....	40	Milton.....	240	Shields.....	7
Brier Sweet.....	530	Minnesota.....	135	Transcendent.....	63
Gen. Grant.....	140	Orange.....	85	Virginia.....	15
Gideon No. 4.....	27	Orion.....	20	Whitney.....	1530
Hyslop.....	115	Red Siberian.....	270	White Arctic.....	85
Martha.....	622	Sylvan Sweet.....	70	Yel. Siberian.....	340

Mount Arbor Nurseries

E. S. Welch, Prop.

SHENANDOAH, IOWA

APPLE SEEDLINGS—Limited quantity of No 2 for sale.

A BARGAIN TO NURSERYMEN.

We have two hundred thousand Elberta, Carman, Belle of Georgia, Early Belle Emma, Greensboro and Alexander JUNE BUDDER Peach, in surplus, that will run from four to ten inches, which we offer to nurserymen for lining-out purposes. This stock will make number one marketable trees for next fall. While this stock lasts, we will box and deliver on cars here. Write for our extremely low price.

Franklin County Nursery Company,

WINCHESTER, TENN.

Native Ornamentals

Trees, Shrubs,
Plants, Vines,
Ferns, etc.

Send for Catalogue

SACKETT BROS., Lebanon Springs, N. Y.

We have for Spring shipment a heavy stock of the following:

Evergreens

Arbor-vitae,	12-18 inch.	Norway Spruce,	4-6 inch.
" "	18-24 "	" "	6-10 "
" "	2-3 feet.	" "	10-15 "
Austrian Pine,	4-6 inch.	" "	12-18 "
" "	6-10 "	" "	18-24 "
Col. Blue Spruce,	4-6 "	Pinus Ponderosa,	4-6 "
Douglas, Spruce	4-6 "	Scotch Pine,	4-6 "
" "	6-10 "	" "	6-10 "
Englemanni,	4-6 "	" "	10-15 "
Hovey's Gol. Ar-		White, "	4-6 "
bor vitae,	2-3 feet.		
Hemlock,	12-18 inch.		
" "	18-24 "		
" "	2-3 feet.		

Grapes

One year No. 1 and two year No. 1 and No. 2.

Agawam, Martha,
Brighton, Moore's Diamond,
Clinton, Moore's Early,
Concord, Niagara,
Delaware, Pocklington,
Elvira, Worden,
Empire State.

We have also a good assortment of Northern Apple, Pear, Cherry and Forest Tree Seedlings, Shade and Ornamental Trees, Weeping Trees, Hedge Plants, Hardy Shrubs, Vines, Roses, Asparagus, Peony's and Palms.

Send us your list of wants.

Sherman Nursery Co.

CHARLES CITY, IOWA.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

SURPLUS, SPRING 1904

150,000 California Privet, fine plants.
25,000 Peach, first-class, 6 to 8 ft.
15,000 Cherry, 3 to 4 ft. and 2 to 3 ft.
10,000 Japan Plums, (fine) $\frac{3}{4}$ up and $\frac{5}{8}$ to $\frac{3}{4}$, 6 to 8 ft.
6,000 Shropshire Damson, $\frac{1}{2}$ to $\frac{5}{8}$, and $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 7 ft.
4,000 Carolina Poplar, 2 year, 10 to 14 ft.
2,000 Sugar Maple, $1\frac{1}{2}$ to 2 in., 10 to 12 ft.
1,000 American Elm, $1\frac{1}{2}$ to 2 in., 12 to 14 ft.
600 American Linden, $1\frac{1}{2}$ to 2 in., 12 to 15 ft.
200 Bushels small Peach Pits, crop 1903, at cost.

WANTED—Apple and Pear Trees, Apple Seed, Apple Seedlings and Ornamental Seedlings.

SURPLUS

Apple Trees

Root Grafts

Forest Seedlings

A full line of SHADE and ORNAMENTAL TREES and SHRUBS.

—WRITE FOR PRICES.—

YOUNGERS & CO., Geneva, Neb.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

—TO—ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,

St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention the National Nurseryman

For February and March

CHERRIES—(On Mahaleb). Dukes and Morellos, 4-5 ft. and 3-4 ft. Hearts and Bigarreus, 5-6 ft. and 4 ft.

PEACHES—Leading market sorts, grown on new land. 4-5 ft. and 3-4 ft.

PLUMS—(On Marianna). Leading sorts 4-5 ft. and 3-4 ft.

PECANS—(Paper shell seedlings and grafted and budded trees)

WALNUTS—Thin Shell and Japan

EXOCHORDA GRANDIFLORA—18 24 in., bushy.

LONICERA—Belgica, Aurea and Heckrotii. Strong

AMOR RIVER and CALIFORNIA PRIVET in great quantities.

MAGNOLIA GRANDIFLORA,

CEDRUS DEODARA.

BIOTA AUREA PYRAMIDALIS.

LIBOCEDRUS DECURRENS and other CONIFERS.

ORANGES and LEMONS, Grafted. Pot grown.

250,000 PALMS

KENTIAS, PHOENIX and LATANIAS. Well hardened

Our Stock was never in better condition
No scale or disease.

P. J. BERCKMANS COMPANY, Inc.

FRUITLAND NURSERIES, AUGUSTA, GA.

Est. 1856

Over 400 Acres in Nursery

THE Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut, Norway and Sugar Maple, Lindens, Poplars, Magnolias, EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS—Ponticum, Catawbiense, Named Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to advertisers mention The National Nurseryman.

LARGEST GROWER IN AMERICA OF GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

Introducer of Campbell's Early Grape, Josselyn Gooseberry, Fay Currant.

Over a quarter of a century with no change whatever in ownership or management.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

Geo. S. Josselyn

FREDONIA, N. Y.

OUR GOLDEN ANNIVERSARY

To complete half a century in a business career is indeed a pleasant experience. Such an epoch of success means a great deal. It shows that the services rendered must have merited the patronage and confidence.

Since the day of its inception by the late Thomas Meehan, the business has been conducted on liberal, satisfaction-giving principles. Ever on the alert to improve our methods, a constant desire to make all transactions satisfactory, furnish only first-class stock; in short, maintain a service that would please our patrons. To this policy we owe our success. By working earnestly and conscientiously along these lines is due our prestige—an asset that we prize and value highly.

This season will find us better prepared than ever to serve our customers. Three hundred acres, replete with hardy ornamentals—our specialty—afford an excellent selection. The assortment is complete and sizes range from small seedlings to big specimens. Write for our Spring catalog and "Young Ornamentals."

THOMAS MEEHAN & SONS, INC.

WHOLESALE NURSERYMEN

NURSERY STREET, DRESHERTOWN, PA.

When writing to Advertisers mention The National Nurseryman.

Homes in the South

There are in the Southern States awaiting development, thousands of acres of uncultivated farm lands in tracts of all sizes, which can be purchased very cheaply. They are productive, healthy, and close to good markets. In ten States reached by the lines of the

Southern Railway

For information about opportunities now available, prices of land, character of soils, etc., write to

M. V. RICHARDS

Land and Industrial Agent

Washington, D. C., Southern R'y

Geo. Peters & Co.

TROY, OHIO.

HAVE A GOOD STOCK OF

Apple, Pear, Plum, Cherry and Peach Trees

to offer in carload lots for early spring shipment.

ALSO HAVE A NICE STOCK OF

Norway Maple, Bechtel's Flowering Crab,

Grape Vines, Currants,

Small Rooted Pyramidal Arborvitae,

TOGETHER WITH A GENERAL LINE OF
ORNAMENTALS.

We still handle and manufacture the

COMMON SENSE CULTIVATOR

Which no Nurseryman can afford to be without.

When writing to Advertisers mention The National Nurseryman.

Capital Nurseries

We offer for Spring the following
strictly first-class stock

APPLE PEACH CHERRY STANDARD PEAR

Grape Vines, Bechtel's Double Flowering Crab
Flowering Shrubs and Vines, Strawberries
Asparagus, 1 year; Elm, Catalpa
Speciosa and Osage Seedlings

SHADE TREES

Box Elder, American Elm, Catalpa Speciosa,
Soft Maple, Weir's Cut Leaf Maple

PETERS & SKINNER

NORTH TOPEKA, KANSAS

Surplus Stock

FOR SPRING OF 1904.

10,000 Apple, in general assortment, all grades.
8,000 St. Pear, " " " "
10,000 Df. Pear, " " " "
12,000 Cherries, " " " "
3,000 Plums, " " " "
20,000 Peach, in general assortment, $\frac{1}{2}$ to $\frac{5}{8}$ and
 $\frac{5}{8}$ and up grades.
25,000 Grapes, in general assortment, 1 yr., No. 1

Besides the above we have a choice lot of
CURRANTS, GOOSEBERRIES, BLACK-
BERRIES, RASPBERRIES and STRAW-
BERRIES.

A choice lot of SHRUBS, ORNAMENTAL
TREES, ROSES, EVERGREENS, Etc.

The above is all choice No. 1 stock. We
are sure it will please. We invite correspondence.

A. WILLIS, - Prop.
OTTAWA, KANS.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries

W. C. REED, Prop.
VINCENNES, IND.

We offer the following for Spring, a large por-
tion of which is in our storage cellar for early
shipment. Also fair assortment of other stock.

Apple, 2 and 3 Year, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$ and
 $\frac{1}{2}$ to $\frac{5}{8}$.

Peach, 1 year all grades, 40 vari-
eties.

Cherry, 1 year, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

Pear, Standard Kieffer, Garber and
Wilder. Fair assortment of
others.

Plum on Plum European.

Plum on Peach, 1 year, very fine,
largely Japans.

Soft Maple, Wiers, Cut Leaved and
Elm.

Catalpa Speciosa Seedlings, 1 year.

1851 Knox Nurseries 1904

We offer for Spring 1904, the following thrifty, well-grown stock :
APPLE—3-year. $\frac{3}{4}$ and up and $\frac{5}{8}$ to $\frac{3}{4}$. Grimes, Benoni, Y. Trans-
parent, Gano, Wine Sap, Ben Davis, Duchess, Baldwin, York
Imperial, N. W. Greening and a few others.

APPLE—2 year, all grades. Ben Davis, Gano, M. B. Twig, Wine
Sap, Wealthy, Golden Sweet, Benoni, and a few others. Can ship
2-year Apple from Topeka, Kansas, if desired.

PEACH—three grades. Good assortment, but largely Elberta
and Champion. Very fine trees at right prices.

CHERRY—1-year. Still a few choice trees left.

CHERRY—2-year, $\frac{3}{4}$ and up. A few 100 Belle de Choisey,
Baldwin and Louis Phillipi left.

CATALPA SPECIOSA—2 ft.

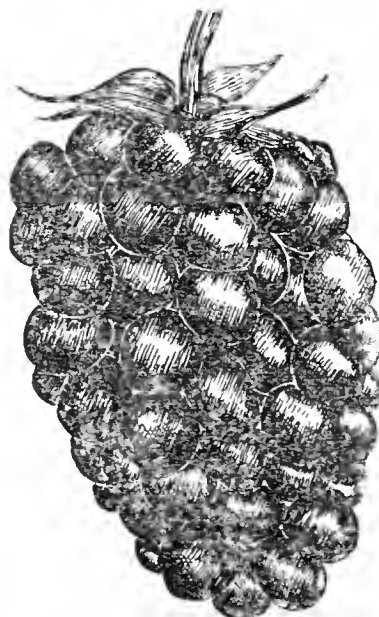
ST. PEAR— $\frac{5}{8}$ to $\frac{3}{4}$, Bartlett largely.

PLUM—2-year, $\frac{3}{4}$ and up. Shippers pride.

For Fall of 1904 and Spring of 1905 we will have a large lot of
Cherry, 1-year old, to offer. Let us quote you prices on your wants.

VINCENNES, INDIANA.

H. M. SIMPSON & SONS.



STRAWBERRY and RASPBERRY plants
of all the new and old sorts in large
or small quantity.

PREMO DEWBERRY. No one can afford
to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG
BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We
have the finest lot of June budded
Peach we ever saw grow, also a
general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE

Fils Aine,
Ussy, Calvados, France
GROWER AND SHIPPER OF NURSERY STOCK

-Ornamentals, trees and shrubs; Evergreens, Conifers. Forest Trees, for spring or fall shipment.

Send for estimates to our sole American agents,

AUGUST RÖLKER & SONS,

P. O. Box 752.

31 Barclay St., New York

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS

RAFFIA FIBRE in Prime Nurserymen's Quality.

PEAR TREES

Fine lot of 2 yrs $\frac{3}{4}$ and up, Stds., Seckel, Koonce, Kieffer, Garber, etc., etc. Apple 2 yrs. $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, in general assortment. Complete general Nursery stock. Correspondence invited.

South St. Louis Nurseries,
5,600 GRAVOIS AVE., ST LOUIS, MO

60 VARIETIES STRAWBERRY PLANTS

THE BEST FOR THE MONEY.

3,000,000 well grown, pure, and nicely put up, well packed plants for sale. My prices will suit you. A full line of all Small Fruit Plants. Submit a list of your wants early for special prices.

La PORTE NURSERY, H. W. HENRY, PROPRIETOR,
LA PORTE, INDIANA.
60 miles east of Chicago.

ESTABLISHED 1852.

Phoenix Nursery Co.

WE have for Spring shipment a very complete line of Fruit and Ornamental Trees, Evergreens, Shrubs, Roses, Small Fruits, Hedge Plants, Herbaceous Plants, Greenhouse Stock, Etc., Etc. Send list of wants for Spring shipment, Correspondence solicited. Spring Wholesale-List mailed on application.

600 ACRES—13 GREENHOUSES.

P. O. Box 625. BLOOMINGTON, ILL.

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.
HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.

12 OF THESE POSTPAID TO ANY PART U. S. \$4.50.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of
Highlands Nursery, N. C.

Beacon Building,
BOSTON, MASS.

GRAPE VINES

AND

Currant Plants

Highest Standard of Grades. Largest Stock and
Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

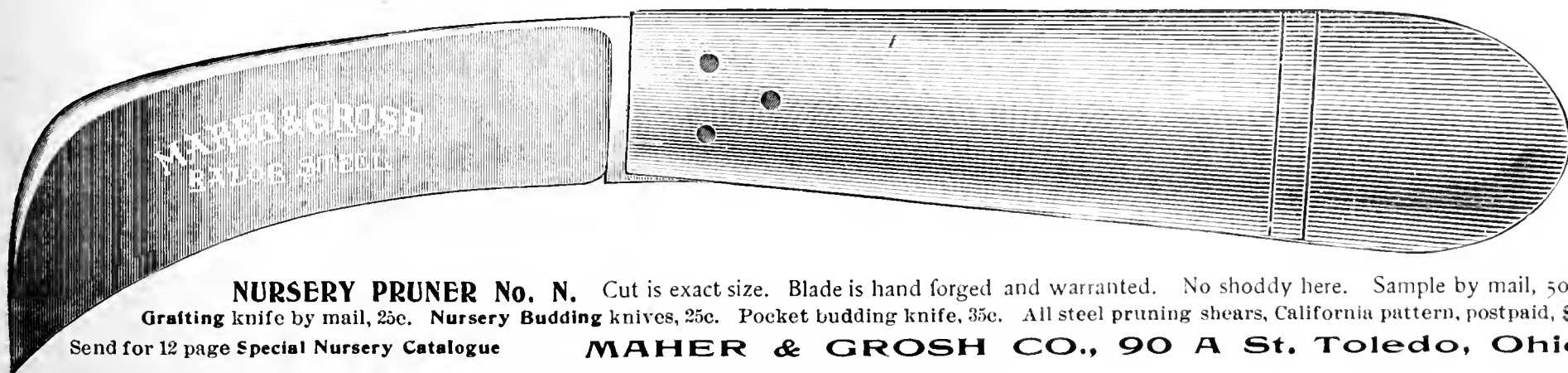
GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.
QUALITY UNSURPASSED.
A fine stock of Campbell's Early.
Catalogue and Price List Free.
Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES



NURSERY PRUNER No. N. Cut is exact size. Blade is hand forged and warranted. No shoddy here. Sample by mail, 50c. Grafting knife by mail, 25c. Nursery Budding knives, 25c. Pocket budding knife, 35c. All steel pruning shears, California pattern, postpaid, \$1.

Send for 12 page Special Nursery Catalogue

MAHER & GROSH CO., 90 A St. Toledo, Ohio

When writing to Advertisers mention The National Nurseryman.

Grape Vines

those of any reputable grower. A complete general nursery stock; also *Southern Natural Peach Seed.*

Stark Grape Nurseries are in the heart of the famous Chautauqua Grape Belt, which produces the finest vines grown in the U. S. An immense stock of the leading sorts, at prices as low as

STARK BRO'S

SEND YOUR WANT LIST FOR PRICES. Portland, N. Y., Louisiana, Mo

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS** ❀ ❀ ❀ ❀

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.
Sole Representatives for the United States.

My Prices Should Interest You

Peach Trees, all grades.
Niagara Grapes, 1 and 2 years.
Arbor Vitae, 3 to 4 ft.
Norway Spruce, 2 to 3 and 3 to 4 ft.
Weir's Cut Leaf Maple, all sizes.

10,000 Deutzia Pride of Rochester.
25,000 Concord, Niagara, Catawba and Worden

Grape Vines

2-year, No. 1.

400 bushels Peach Seeds.

The Deutzia at less than cost of imported plants.

W. B. COLE, Painesville, O.

A Snap

Will sell an interest or all of one of the best located Nurseries in the West. New country just being developed and proving one of the best fruit countries in the United States. Land is under term Lease at a cheap rate. Very fine soil for Nursery purposes. Well located for shipping. Plenty of labor cheap and practically no competition within one hundred miles. Reasons for selling, have other interests to look after. Price low and terms to suit buyer.

ADDRESS W., CARE NATIONAL NURSERYMAN.

WANTED

An experienced Ornamental Stock Grower—one familiar with propagation and handling of trees and shrubs; also thoroughly acquainted with varieties. Permanent position with large concern for the right man. State particulars fully.

ADDRESS ORNAMENTAL, CARE NATIONAL NURSERYMAN.

Wood Labels for Nurserymen and Florists

BENJAMIN CHASE, DERRY, N. H.

TREE-BOX LUMBER

We are shipping many of the largest nurseries their Tree-Box Lumber, all sized and ready to nail together, and we are SAVING THEM MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

In car lots only.

Write us today for prices.

GOODWILLIE BROTHERS,

Saw Mills and Factory,
WAUSAU, WIS.

407 New York Life Bldg., Chicago, Ill.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

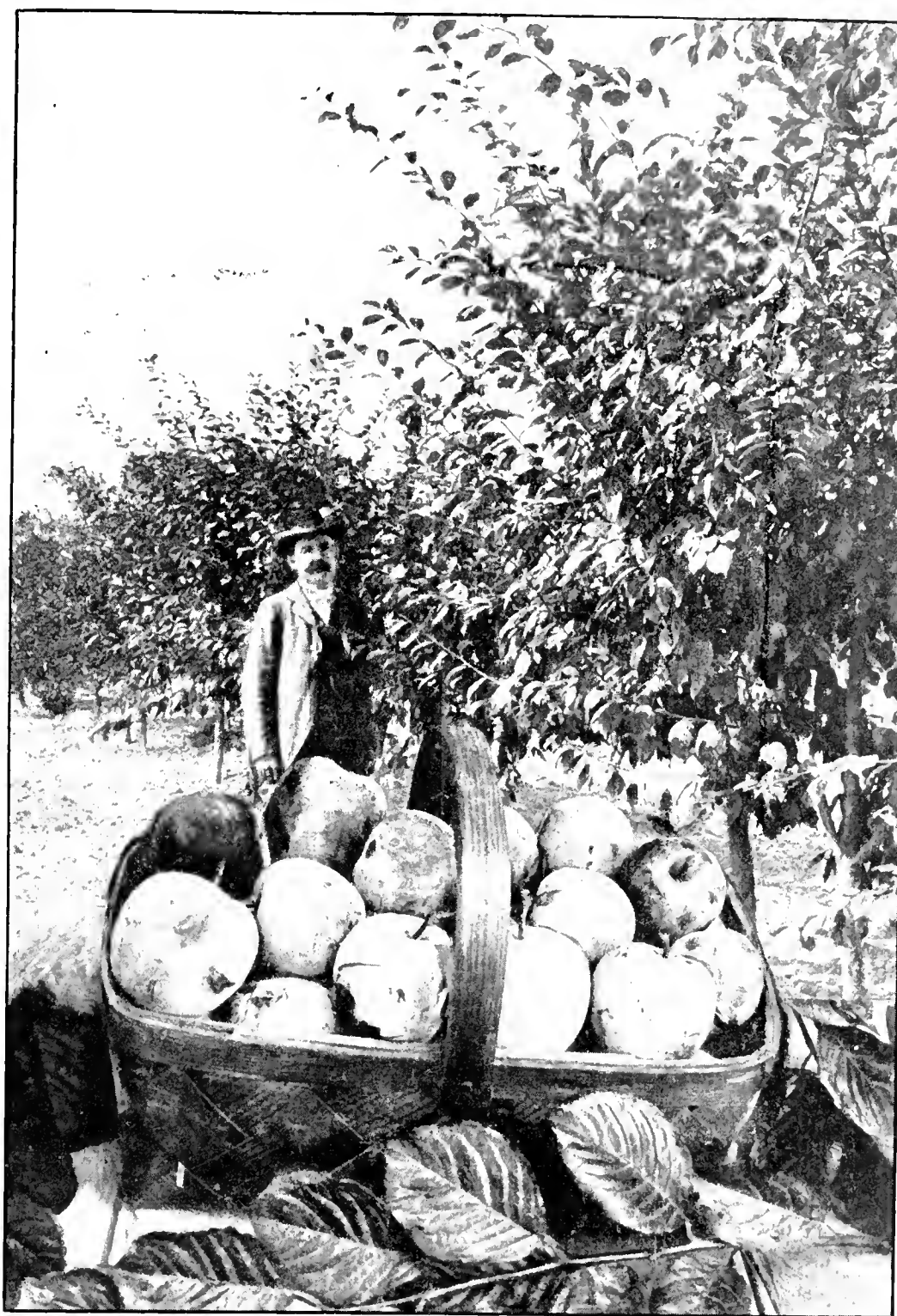
Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

THE AND SHOWING GREATEST
 GREAT HIS TREES PLUM
 ORIGINATOR GRAND FRUITING ON
 LUTHER PLUM AT TWO EARTH
 BURBANK MAYNARD YEARS AND

The
 MAYNARD
 will be sold
 for the first
 time during
 the Season of
 1903
 and will be
 offered to
 Nurserymen
 and
 Dealers
 as an Agents
 Specialty



Two year Maynard Tree and basket of fruit.
 Burbank in the background.

Will be a
 Regular
 Bonanza
 for Agents
 The retail price
 will be
 protected by
 Special
 Contract
 and as a
 guarantee of
 Genuineness,
 each tree sent
 out will have
 attached the
 MAYNARD
 SEAL

TO WHOM IT MAY CONCERN: This certifies that I have, under royalty contract, dated September 7th, 1901, assigned to the OREGON NURSERY COMPANY, of Salem, Oregon, the sole right to propagate and introduce my new Plum, Maynard, and that no other person has ever received any buds or scions, or have any right to propagate or introduce the Maynard, except under contract from the Oregon Nursery Company. I consider the Maynard one of the best Plums that I have ever introduced.

Dated at Santa Rosa, Cal., this 1st day of December, 1902.

LUTHER BURBANK.

ADDRESS ALL CORRESPONDENCE TO THE

OREGON NURSERY COMPANY,
 SALEM, OREGON.

PEACH

	5 to 8 ft. 3-4 and up	5 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 4 ft. 3-8 to 1-2	2 to 3 ft.
Amsden June.....				75	75	75
Arkansas Traveler		30	50	50	50	50
Admiral Dewey.....	600	125	125	200	100	100
Alexander.....			25	75	124	125
Bokara.....	40	40	50	60	100	100
Belle of Georgia.....	350	600				
Barber.....			40	50	60	100
Bronson.....		25	75	100	125	150
Beauty Blush.....		25	40	40	40	50
Boston's Oct.			50	75	100	100
Blyer's Late.....			100	200	1200	300
Brandywine.....					10	25
Bequet Free.....				100	100	100
Barnard's Early.....			50	75	75	100
Burke.....					250	
Crawford's Late.....	3000	2160	720	3100	2800	1700
Crawford's Early.....		120	580	175	150	
Carman.....	7000	1500	800	500	500	625
Cobler.....	40		40	40	40	40
Crosbey.....	800	600	350	300	100	
Christiana.....	200	150	150	200	200	100
*Connecticut.....				20	20	20
Capt. Ede.....	150	40	40	25		
Chair's Choice.....	1300	600	600	700	400	
Connett's Early.....		240	1000	500	200	
Conklin.....		25	75	100	125	150
Coolidge Favorite.....		25	50	75	75	75
Dover.....		40	50	50	50	50
*Elberta.....	10950	4350	1750	400	1875	375
Early Rivers.....	1200	300	200	200	100	
Engle's Mammoth.....	1600	700	350	350	300	
Enuma.....	100	50	50	50		
Everbearing.....		40	40	40	50	70
Early Heath.....					250	125
Early York.....					75	100
Early Toledo.....		35	25	25	75	75
Early Davidson.....		20	40	50	50	50
Eureka.....		25	25	50	50	50
Early Michigan.....		75	75	75	75	100
Fox Seedling.....		200				
Foster.....	700	950	300	75		
Fitzgerald.....	450	100				200
*Frances.....	600	600	500	250		250
Gold Drop.....				100	50	80
Greensboro.....		100		150		
Geary's Hold On.....	600	300	100	100	100	
Globe.....	160	150	200	350	500	800
Garfield.....				50	75	50
Gordon.....					100	100
Holderbaum.....		40	40	50	50	60
Hale's Early.....	1	25	25	10	10	40
Hieley (Early Belle).....	2000	600	400	200	200	
Hill's Chili.....	400	200	200	200	125	125
Haine's Surprise.....	25	25	35	50	50	50
Heard's Beauty.....			20	25	75	150
Hughes.....				75	75	100
Hobson's Choice.....	80	80	90	10	80	100
Heidelberg.....		50	50	25	25	25
Jennie Worthien.....				75	75	100
Jacque's R. R.....	50	50	75	75	75	75
Kalamazoo.....	2300	500	300	200	100	
Levy's Late.....	100	100	100	144	100	100
Lorentz.....	500	100	100	100	50	50
Lewis.....		50	50	100	100	100
Marshall.....			25	50	75	75
Miss Lolo.....		100	100	100	100	100
Magnum Bonum.....			15	75	100	100
Mamie Ross.....	900	400	300	300	100	
Matthew's Beauty.....	700	200	100		498	
Moore's Favorite.....					700	
Mrs. Bret.....			50	75	100	100
Mary's Choice.....				20	75	75
New Prolific.....	1600	400	200	100		
Old Mixon Free.....	500	1690	1350	2700	1450	850
Old Mixon Cling.....		25	50	50	50	50
Oscar.....			50	100	100	100
Piequet's Late.....	900	400	400	200	200	
Pearce's Yellow.....				42	50	50

PEACH

	5 to 8 ft. 3-4 and up	5 to 6 ft. 5-8 to 3-4	4 to 6 ft. 9-16 to 5-8	4 to 5 ft. 1-2 to 9-16	3 to 4 ft. 3-8 to 1-2	2 to 3 ft.
Reeve's Favorite.....	1100	980	1100	1100	1000	1000
Stump.....	250	800		1100	700	300
Scott's Nonpareil.....			75	75	75	75
Sunrise Cling.....					250	
Steadley.....		25	25	48	100	150
Shipley's Late Red.....	25	50	50	50	100	100
Slappey.....	500	150	150			
Smock (Beer's).....		1000	170	998	998	
Sneed.....		150	65	65	65	65
Snow's Orange.....	25	25	50	65	65	75
Silver Medal.....		25	25	50	50	50
Smock Cling.....			25	75	150	150
Schumaker.....			50	75	100	100
Switzerland.....			40	75	100	125
*Triumph.....	1200	200	200			
Tillotson.....	300	150	150	150		
Victor.....	10	25	50	50	50	75
Van Meteor's L Oct.....	25	35	35	35	35	35
Ward's Late.....	50	25	50	75	85	10
Waterloo.....		75	75	75		75
Wheatland.....	1300	1700	1900	1900	500	300
Wonderful.....	600	649	600	449	349	200
Waddell.....	1200	1499	700	100	100	
Wager.....	14	16	24	49	40	50
Wheeler's Late.....			49	49	49	49
William's Favorite.....			20	49	74	74
Yellow St. John.....	1000	800	800	1000	499	300
Yellow R. R.....			49	100	100	100

We call SPECIAL ATTENTION to our LOW PRICES for Extra Grade Peach, for Extra Early Spring Shipment.

Send for List of 2 year Apple Trees.

KIEFFER PEAR

	3-4 and up 5 to 7 ft.	5-8 to 3-4 5 to 6 ft.	9-16 to 5-8 4 to 5 ft.	3-8 to 1-2 3-1-2 to 4 1-2 ft.	3 to 4 ft. whips	2 to 3 ft. whips
	10,000	8,000	7,000	5,000	4,000	2,000

APPLE SCIONS READY.

2 and 3 year GRAPE VINES — Concord, Moore's Early and Aganap.

5,000 CAROLINA POPLARS.

ASPARAGUS ROOTS—2 and 3 year.

STRAWBERRY PLANTS

For sixteen years we have made strawberry plants a specialty for the wholesale trade, and we are proud to say that our stock of plants this season is in every way first-class, grown on our new land, that gives the plant an abundance of fibrous roots, and free from all diseases.

Our plants are handled in the very best possible manner, packed in slatted crates, and will reach any part of the United States in safety.

For early orders, we recommend sending by freight, which is a great saving. After April 10th, if the plants are to be shipped over three hundred miles, we would recommend by express. Early orders are urgently requested for best success. Our prices are ridiculously low, considering the price of labor.

FRESH DUG

20,000—Auto	5,000—Hero	400,000—Parsons
50,000—Aroma	125,000—Johnson's Ea	175,000—Rough Rider
5,000—Bush Clust.	50,000—Jessie	50,000—Rio
400,000—Bubach	300,000—Kansas	800,000—Star
60,000—Bismark	500,000—Louis Hub'h	800,000—Sharpless
60,000—Beder Wood	10,000—Lovetts	400,000—Sample
120,000—Clyde	12,000—Livingston	10,000—Smith
300,000—Crescent	20,000—Lester Lovett	20,000—Superior
10,000—Dayton	10,000—McKinley	900,000—Tennessee
250,000—Early Hath.	10,000—Mark Hanna	3,000—Thompson's E
		Early
100,000—Excelsior.	8,000—Marie	4,000—Uncle Jim
300,000—Eleanor	60,000—Marshall	300,000—Warfield
400,000—Gandy	210,000—Michell's Ear.	75,000—Wm. Belt.
130,000—Gladstone	60,000—Nick Ohmer	9,000—Yant
75,000—Glen Mary	50,000—Ocean City	
800,000—Haviland	30,000—Parker Earle	

Send for New List To-day.

J. G. Harrison & Sons,
BERLIN, MD.

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APR 5 1904
U. S. Department of Agriculture



April, 1904

Continental Nurseries



The largest and most complete
Nursery plant in the United States.

We have a full line of Nursery
Stock the coming year for the whole-
sale trade.

We should be pleased to receive
your list for estimate.



Brown Brothers Co.,
ROCHESTER, N. Y.

Painesville

Nurseries



OFFER one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including

Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.

CALL ESPECIAL ATTENTION TO OUR STOCK FOR SPRING OF 1904 OF

Standard and Dwarf Apples, Standard and Dwarf Pears, Cherries, Plum and Peaches.

Grape Vines — Large lot Fredonia grade.

Small fruits a fair stock of most kinds. Many leading varieties will be short. Early orders advised. Our plants are graded, handled and packed right.

Roses—Hybrid Perpetual and Climbers including the largest lot of Crimson Ramblers in the country.

Shrubs, Climbing Vines, Perennial Plants—In fine assortment including fine lot Ampelopsis Veitchii, Clematis Paniculata, California Privet, Berberry in variety, Japan Quince, etc.

From Holland—Our importations are large and stock never in better condition. Rhododendrons, Hardy Azaleas, Tree Roses, Tree Hydrangea, Magnolias with ball. Flowering Thorns, Purple Filberts, two and three year Clematis, etc.

Some Bargains in light grade Apple and Peach.

Glad to estimate on your list of wants.

Descriptive Catalogue, complete new edition, one of the best and most comprehensive ever issued, free to the trade.

Visitors always welcome. The new C. P. & A. Electric R. R. has stop on our grounds.

The Storrs & Harrison Co.

PAINESVILLE, OHIO

TREES

Fruit and Ornamental.
Shrubs
Evergreens
Roses
Hardy Plants

All the Best and Hardest Varieties.
 Largest Collections in America.
 Illustrated Descriptive Catalogue
FREE on request.

ELLWANGER & BARRY,
 Nurserymen-Horticulturists.
MOUNT HOPE NURSERIES,
 Rochester, N. Y.
 Established 1840. Mention this publication.

Advantageous offers upon many

**SCARCE VARIETIES are to be
found in OUR PRICE-LIST**

If you have not received it, write for a copy to-day.

Orders are coming in very rapidly but we can still offer, in good assortment, splendid stocks of

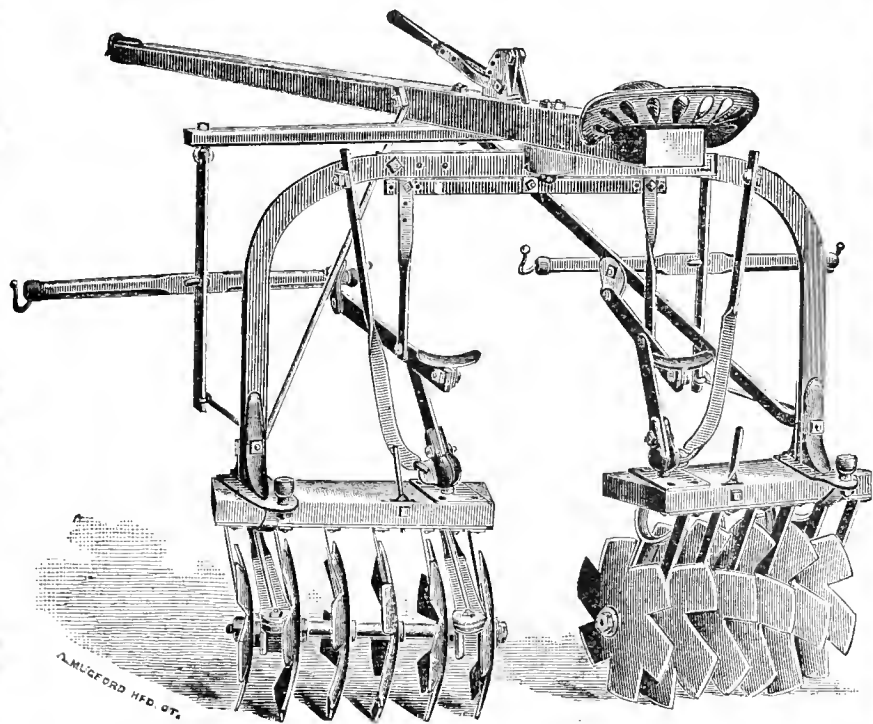
Roses (On-own-roots and budded) **Clematis**
Climbing Vines
Flowering Shrubs
Ornamental Trees
 (Including C. L. Birch)
Conifers
Herbaceous Plants
Currants
Apples
Cherries **Plums**
Standard Pears
Dwarf Pears

SEND FOR OUR PRICE-LIST. Use printed stationery or enclose business card to show that you belong to the trade. Sent only to nurserymen, florists and dealers.

JACKSON & PERKINS COMPANY

NEWARK, NEW YORK

For Nurserymen WE HAVE IT IN THE **Four "C" Cultivator**



Entirely new principles in cultivating nursery stock, corn or cotton—Clark's Cutaway Cultivator. It has two gangs, each having five Cutaway discs. This cut was made from first machine, when we used six spading discs. We now use only five of our regular Cutaway discs. They cut two feet on each side and will thoroughly pulverize and cultivate the soil. It is reversible—cultivating either towards or away from the plant. By a simple motion of the foot each gang can be guided, as desired—and at all times it is under perfect control, so that crooked rows may be readily cultivated. Can cultivate all sizes of nursery stock, from one inch up to several feet. For farm use in corn cultivation it is also a perfect machine. Circulars and prices promptly mailed of this and other special tools to prepare ground for planting out.

E. G. MENDENHALL, KINMUNDY, ILL.
 GENERAL AGENT.

Thirty Thousand Buyers

Of nursery stock will read your advertisement every months in the columns of

**The Fruit Grower,
St. Joseph, Mo.**

We guarantee a circulation of 30,000 copies a month and will prove in any manner you may suggest. Advertising rate for this service is \$2.10 per inch each insertion.

Nurserymen as a rule do not advertise during the summer months, but a number of our patrons, after the experiment of using a small amount of space during the "off season" have been convinced that the keeping of the firm name before our readers every month, results in securing more orders "in season."

Why not try it? The investment will not be a heavy one and experience has proved this plan profitable. Send copy for small ad to start in May number. Forms will close May 10th.

THE FRUIT GROWER CO.,
 331 S. 7TH STREET, ST. JOSEPH, MO.

When writing to Advertisers mention The National Nurseryman.

When writing to Advertisers mention The National Nurseryman.

Maple Grove Nurseries

WATERLOO, N. Y.

Surplus Stock for Spring Shipment

Good General Assortment

Especially Fine Lot of

APPLES and PEACHES

Send Wants List for Quotations

PEIRSON BROTHERS
Proprietors

THE WILLADEAN NURSERIES

Offer in surplus for SPRING 1904, all kinds of first class Nursery Stock

SPECIAL LOW PRICES

will be quoted on Apples, Plums, Cherry and Asparagus, Sweet Gum, Tulip, Silver Maples, Am. Elm, Scotch Elm, Oaks in variety, Magnolia Accuminata, Ash in variety, Catalpas, Cypress, Yellow Wood, Red Bud, Am. Sycamore, Paulownia and others. All sizes from 4 to 15 feet. Spirea Van Houtti, Hydrangeas, Weigelas, Lilacs, Berberry, Deutzias, Cut Leaf Elder, Purple Fringe, Syringas, Snowberry and many other Shrubs. Seedlings such as Catalpas, Mulberrys, Oaks, Maples, Sweet Gum, Ailanthus, Hackberry, Red Bud, Calycanthus, Snowballs, Hydrangeas, and others, Paeonias, Perennials, etc. Send your list of wants for special prices. Correspondence solicited.

The Donaldson Co.

Successors to DONALDSON & GIBSON

WARSAW, KY.

TREES

A General Line of High Grade Nursery Stock.

We are especially heavy on Standard and Dwarf Pears and Peaches.

Write for prices on large or small quantities.

WILLIAM STREET NURSERIES

T. W. AND J. P. RICE, PROPRIETORS
GENEVA, N. Y.

Surplus Stock for Spring, 1904

Apples, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

Cherries, sweet and sour, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

Peaches, all grades.

Japan Plums, all grades.

Bartlett and Kieffer Pears, $\frac{3}{4}$ and up.

American Persimmons, American Chestnuts, English Filberts, Butternuts, Asparagus, 2 year; Osage Orange, 2 year; California Privet, 2 year; Catalpas, American Elms, Laburnums, Yellow Locusts, Maples, Oaks, Poplars, Salisburias, etc.

RAKESTRAW & PYLE

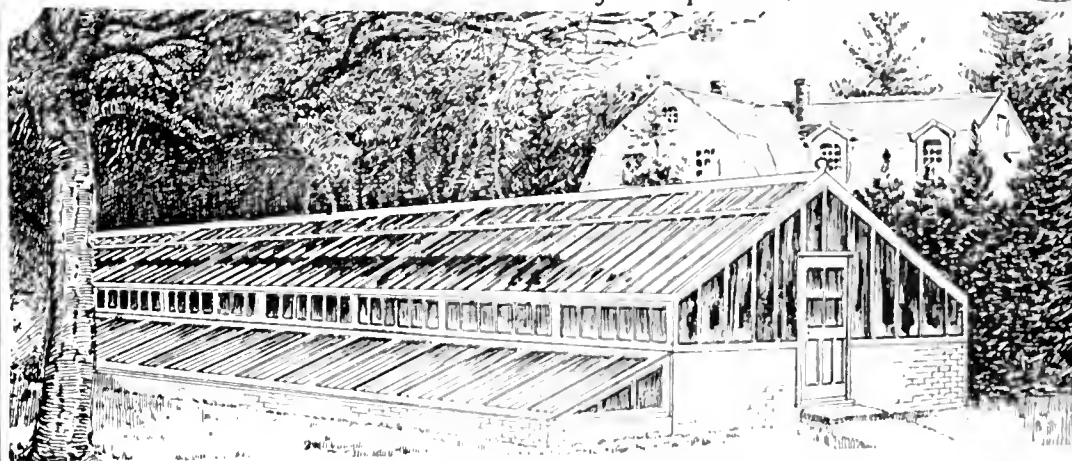
Kennett Square, Pa.

When writing to Advertisers mention The National Nurseryman.



BUILD THE BEST GREENHOUSES

And so increase your profits



WRITE TO-DAY TO OUR N. Y. OFFICE enclosing five cents postage for Construction Catalogue of "up-to-date" Greenhouses.

We make them with both iron and wooden frames. We can erect your houses or supply the material fitted. Our houses are light and durable. Perfectly heated and ventilated.

LORD & BURNHAM CO.

New York Office:
St. James Bldg., 1133 Broadway
General Office and Works:
Irvington-on-Hudson, New York



SPECIAL OFFER PIN OAKS

Low branched specimens—good roots and fine tops.
8 to 10 feet. $1\frac{1}{2}$ to 2 inch caliper.

Also a surplus of specimen Norway-Sugar and Silver Maples.
14 to 18 feet. 3 to $4\frac{1}{2}$ inch caliper.

Price list now ready

ANDORRA NURSERIES

WM. WARNER HARPER, Prop. Chestnut Hill, Phila.

1846

1904

E. Smith & Sons

Geneva, N. Y.

Are offering special inducements on all lines of Nursery Stock



Write for Prices and
Send List of Wants

When writing to Advertisers mention The National Nurseryman.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

APPLE SCIONS

A fine lot of all the leading sorts.

Write for prices. **STARK BROS.** Louisiana, Mo.

POTS! POTS! POTS!

We are manufacturers of **Standard Flower Pots** equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

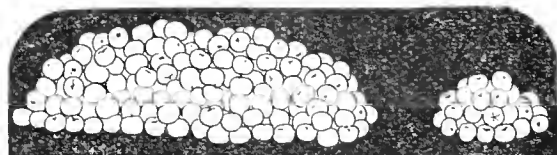
THE KELLER POTTERY COMPANY, 213-23 Pearl Street
NORRISTOWN, PA.

Beechwood Nurseries

I have a full line of PEACH TREES (all grades) in surplus; also 500 fine 3-year Ben Davis to offer

ALL TREES FUMIGATED.

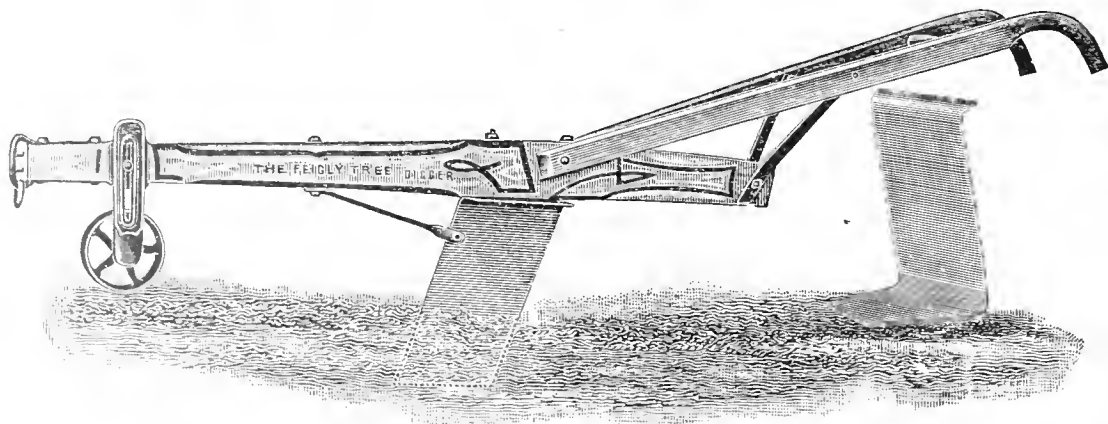
C. L. LONGSDORF
FLORADALE, PA



Actual Results
of the advantages of spraying are shown in above picture. The two piles of apples came from the same number of trees in the same orchard row. The big pile from sprayed trees. Pictures taken from actual photographs.

The Best Spraying Pumps
bucket, knapsack, barrel, hand and power, are made by the undersigned, inventors and sale owners of many new valuable spraying fixtures and features. Write for free catalogue and booklet on insects, plant and fruit diseases.

THE DEMING CO., SALEM, O.



D. FEIGLY, Medway, O. Sole Agent. Send for Circular.

When writing to Advertisers mention The National Nurseryman.

Peach Trees Full assortment of varieties, lalseiz.s
Kieffer Pear 2-year, 3/4 up, on Imported Stocks.
Apple 2-year, 3/4 up and 5/8 to 3/4.

Ben Davis, Gano, York Imperial, Baldwin.

Above surplus in carloads or smaller quantities for winter or early spring shipments.

All grown on Missouri River upland, 50 to 250 ft. above the flood line.

WRITE FOR PRICES.

New Haven Nurseries
NEW HAVEN, Mo.

P. O U W E R K E R K

1123 SUMMIT AVENUE

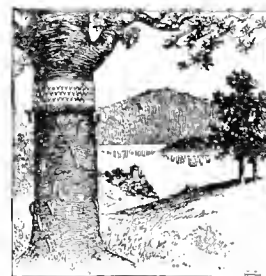
JERSEY CITY, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnoleas, Box Trees, Fancy Conifers, Hydrangeas and Shrubs our specialities at our **HOLLAND NURSERIES.** Some of the goods on hand here during the packing season.

WANTED,

Working foreman in nursery; must be capable of handling men and know stock and outside propagation. Permanent position for right man; fifty acres of ornamental stock; tree movers.

ISAAC HICKS & SON, WESTBURY NURSERIES,
WESTBURY STATION, L. I., N. Y.



THE ARNDT TREE PROTECTOR

A perfect, inexpensive protection against all creeping and crawling insects. Agents wanted everywhere.

WRITE AT ONCE **Michigan Cut Flower Exchange**

WM. DILGER, Mngr., Sole Distributors,
DETROIT, MICH., U. S. A.

RAFFIA BEST grades of Madagascar Raffia for Nurserymen.

Orders for bale (225lbs.), or more from stock or for direct import. Write for prices.

McHUTCHISON & CO., 218 Fulton St., NEW YORK.

PEACH TREES

Best varieties. First class 9-16 and up.

Special low prices to close out surplus.

THOMAS MEEHAN & SONS, Inc. Dreshertown, Mont'g Co., Pa

THE IMPROVED FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

D. FEIGLY, Medway, O. Sole Agent. Send for Circular.

When writing to Advertisers mention The National Nurseryman.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1903, AND SPRING, 1904

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

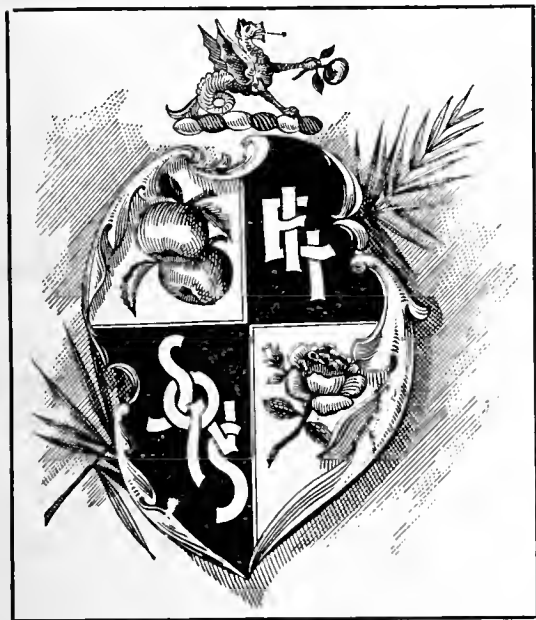
All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited.

When writing to Advertisers mention The National Nurseryman.

No Frozen Trees! No Black-Heart!

STANDARD

APPLE AND PEAR

In Car Load Lots.

Complete assortment of varieties; heavy grades.

Write for prices.

Send want list.

WE EQUALIZE FREIGHT RATES.

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

12,000 Peach 7 to 7½ feet, also 5 to 6 and 4 to 5 feet

Twelve kinds—Elberta, Mln Rose, Stephens R. R. Sneed, E. Rivers, Crawford Late, Stump, Chairs Choice, Wheatland, Old Mixon Free, etc. Clean, bright trees, not dug last Fall. Osage Orange, Lombardy Poplars, 10 to 15 feet, fine, tocky; Cal. Privet, Hemlock, Spruce, 3 ft.; G. Queen and Marlboro, Raspberries, etc.

Josiah A. Roberts

MALVERN, PA.

Native Ornamentals

Trees, Shrubs,
Plants, Vines,
Ferns, etc.

Send for Catalogue

SACKETT BROS., Lebanon Springs, N. Y.

JAPANESE SPECIALTIES

In NURSERY STOCK, BULBS, etc.,
grown in our own Nurseries in Yokohama
and Tokio, Japan.

MAPLES, CONIFERS,

ORNAMENTAL TREES AND SHRUBS,

TREE AND HERBACEOUS PAEONIES,

IRIS KÄMPFERII, the latest varieties,

LILIES, ETC.,

CHESTNUT AND WALNUT SEED.

Prices free ex cars New York, duty included.
Sound arrival guaranteed. Write for our trade list.

SPECIAL PRICES FOR LARGE QUANTITIES and
hand colored plates for inspection on demand.

Suzuki & Iida

31 Barclay St., NEW YORK.

21-35 Nakamura-machi, YOKOHAMA.

When writing to Advertisers mention The National Nurseryman.

L. R. TAYLOR & SONS

TOPEKA, KANSAS

PROPRIETORS

Topeka Nurseries

Headquarters for

Apple Trees

Spring, 1904. All two-year trees. large assortment smooth and healthy.

Fair supply of Peach, Cherry and Pear Trees.

A few Japan Pear and No. 3 Apple Seedlings.

All stock offered was above the flood line and is strictly first-class.

F. N. Stannard & Co.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

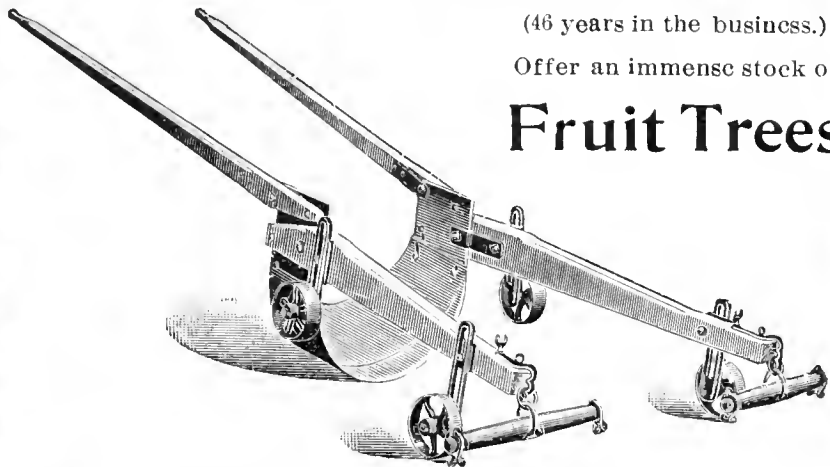
A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

L. G. Bragg & Co.

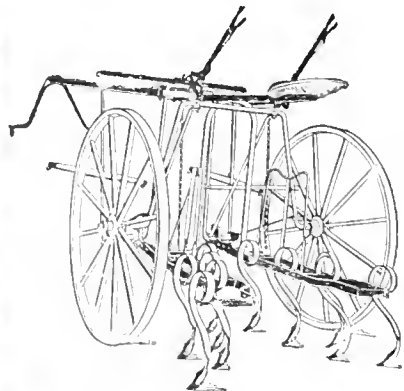
(46 years in the business.)

Offer an immense stock of

Fruit Trees



Ornamental Trees, Roses, Etc.



At wholesale and retail. Agents wanted. We give large planters wholesale rates.

"Bragg's Common Sense Tree Digger" has no peer. It is being used by most of the principal nurserymen.

Bragg also manufactures the "Jumbo Cultivator." Nurserymen appreciate the Jumbo, as they can cultivate all sizes of stock from one inch to six and seven feet. Farmers also appreciate it as they can cultivate corn from start to finish.

Correspondence solicited.

L. G. Bragg & Co.

KALAMAZOO, Mich.

When writing to Advertisers mention The National Nurseryman.

Dreer Specialties in Hardy Plants

Hardy and Tender Water Lilies and Nelumbiums. Most extensive collection, including all the standard varieties as well as a complete assortment of American and French novelties.

Hardy Perennial Plants

Most extensive collection in America.

Japanese Anemones, Aquilegias, Hardy Asters, Campanulas, Hardy Chrysanthemums, Delphiniums, Helianthus, Hemerocallis, Double Hollyhocks, Iris, Paeonias, Phlox, Pinks, Poppies, Primroses, Stokesia, Rudbeckias, Tritoma Pfitzeri, etc.

Hardy Vines

Ampelopsis, Akebia, Aristolochia, Clematis, Ivies, Wisterias, etc.

Roses

A most complete list of Hybrid Perpetual and Everblooming varieties. Our Roses have been all potted during the winter, stored in cold houses, consequently can be shipped until late in the season.

The New Blue Conifer, *Retinispora Sanderi*

A most important addition to the list of Evergreens

Rhododendrons, Hardy Azaleas, Hydrangea Paniculata Grandiflora.

For a complete list of Hardy Plants as well as for a full line of Decorative Florists' Stock such as Palms, Ferns, Rubber Plants, Pandanus, Summer Flowering Bulb, etc., see our Quarterly Wholesale List which is mailed free to the trade on application.

HENRY A. DREER, Philadelphia, Pa.

When writing to Advertisers mention The National Nurseryman.

BRIDGEPORT NURSERIES

Spring—1904—Bargains

Cherry— $\frac{3}{8}$ to $\frac{1}{2}$ in., $\frac{1}{2}$ to $\frac{5}{8}$ in., $\frac{5}{8}$ to $\frac{3}{4}$ in. and $\frac{3}{4}$ in. and up; also XX. Largely Early Richmond, Montmorency, Dye House, etc.
Plum— $\frac{3}{8}$ to $\frac{1}{2}$ in., $\frac{1}{2}$ to $\frac{5}{8}$ in., $\frac{5}{8}$ to $\frac{3}{4}$ in., and $\frac{3}{4}$ in. and up. Largely Lombard, Geuii, Bradshaw, Shipper's Pride, Burbank, Abundance, etc.

Pear, standard and dwarf— $\frac{3}{8}$ to $\frac{1}{2}$ in., $\frac{1}{2}$ to $\frac{5}{8}$ in., $\frac{5}{8}$ to $\frac{3}{4}$ in. and $\frac{3}{4}$ in. and up. Largely KIEFFER, B. D. Anjou, Bartlett, Sheldon, Clapp, Flemish Beauty, etc.

Apple—3 to 4 ft. whips, $\frac{1}{2}$ to $\frac{5}{8}$ in., $\frac{5}{8}$ to $\frac{3}{4}$ in. and up.

Currants—FAYS, CHERRY, RED DUTCH, VICTORIA, WILDER, etc.

Also PEACH and good general assortment of other stock.

Above, all in storage, ready for shipment any day on receipt of orders

These CHERRY, PLUM and PEAR are all 1 and 2 yr., nice smooth stock, strictly first-class of grades and in good condition.

Prices in quantity quoted on application. Write us stating quantity and grades wanted. We have in above some good BARGAINS for EARLY ORDERS. See Trade List for more complete lists and prices.

Good stock of 2 yr. imported and home grown ROSES. Also IMPORTED APPLE, MYROBOLAN PLUM, PEAR, CHERRY (Mahaleb), and QUINCE Stocks.

Spades—The BEST and CHEAPEST. **Excelsior** (baled)—The BEST PACKING MATERIAL for either SHIPPING or WINTER STORAGE—cheaper and far superior to Moss. **Box Straps**—SOFT STEEL.

Our storage and shipping facilities are unsurpassed.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport, Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

Trade Winners, We Have Them

Apple, $\frac{3}{4}$ in. and up, 5 to 7 feet. Apple, $\frac{3}{4}$ in. to $\frac{1}{2}$ in., 5 to 6 feet.
 " $\frac{1}{2}$ in. to $\frac{3}{4}$ in., 4 to 5 feet. " 7-16 to $\frac{1}{2}$ in., 3 to 4 feet.

Heavy on Ben Davis, York Imperial, Baldwin, Gano, Wine Sap, M. B. Twig, and other leading sorts.

PEARS—A fine lot of Garber, Keiffer and Clapps' Favorite in the two upper grades.

PLUM ON PEACH, one year, $\frac{5}{8}$, $\frac{1}{2}$ to $\frac{5}{8}$, 7-16 to $\frac{1}{2}$. Varieties, Abundance, Burbank, Wickson, German Prune, Duans Purple, Bradshaw, and a few others.

Car load lots a specialty, let us figure on your want list for this fall and next spring. Correspondence solicited.

The Village Nurseries

HARNEDSVILLE, PENNA.

SURPLUS STOCK for SPRING TRADE

APPLES

Leading kinds. 1st, 2d and 3d sizes.

CHERRIES

2 years. Sours. $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

PEACHES

Elberta, Carman, Champion, Kalamazoo, etc. Three sizes, all in cellars.

WANT Plums, Kieffer Pear and Strawberries. Prices Low.

The Albaugh Nursery and Orchard Co.

PHONETON, OHIO

When writing to Advertisers mention The National Nurseryman.

GULF CYPRESS

Greenhouse Material

CUT AND SPLICED READY FOR ERECTION

Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus

GLASS at Wholesale

Try our Seal Tight Liquid Putty

Sample Gallon, 75 cents

S. JACOBS & SONS

MANUFACTURERS

1365 to 1373 Flushing Avenue

BROOKLYN, N. Y.

We furnish everything for building.

Send for prices and catalogue

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W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

SURPLUS, SPRING 1904

150,000 California Privet, fine plants.
25,000 Peach, first-class, 6 to 8 ft.
15,000 Cherry, 3 to 4 ft. and 2 to 3 ft.
10,000 Japan Plums, (fine) $\frac{3}{4}$ up and $\frac{5}{8}$ to $\frac{3}{4}$, 6 to 8 ft.
6,000 Shropshire Damson, $\frac{1}{2}$ to $\frac{3}{4}$, and $\frac{3}{8}$ to $\frac{1}{2}$, 5 to 7 ft.
4,000 Carolina Poplar, 2 year, 10 to 14 ft.
2,000 Sugar Maple, $1\frac{1}{2}$ to 2 in., 10 to 12 ft.
1,000 American Elm, $1\frac{1}{2}$ to 2 in., 12 to 14 ft.
600 American Linden, $1\frac{1}{2}$ to 2 in., 12 to 15 ft.
200 Bushels small Peach Pits, crop 1903, at cost.

WANTED—Apple and Pear Trees, Apple Seed, Apple Seedlings and Ornamental Seedlings.

SURPLUS

Apple Trees
Root Grafts
Forest Seedlings

A full line of SHADE and ORNAMENTAL TREES and SHRUBS.

—WRITE FOR PRICES.—

YOUNGERS & CO., Geneva, Neb

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

—TO—ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.
PULLMAN SLEEPING CARS.
WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

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Specialties for Fall.

CHERRIES. PLUMS. MULBERRIES.
WALNUTS—ENGLISH AND JAPAN. PECANS.
EXOCHORDA. LILACS. LONICERAS.
HYDRANGEAS—FIELD GROWN, STRONG.
THOS. HOGG, ROSEA, ETC.
CAMELLIAS, AZALEAS, GARDENIAS, MAGNOLIAS.
HEDGE PLANTS:
AMOR RIVER AND CALIFORNIA PRIVET IN
LARGE QUANTITIES.
CITRUS TRIFOLIATA. BERBERIS THUNBERGII.
SPIROEA THUNBERGII.
BIOTA MUREA NANA. CEDRUS DEODARA.
LIBOCEDRUS DECURRENS.
JUNIPERS. RETINOSPORAS.
ORANGES, LEMONS AND OTHER CITRUS FRUITS.
300,000 PALMS.
KENTIAS, LATANIAS, PHOENIX.
FIELD GROWN ROSES—Own Roots and Budded.
NO SCALE and Everything Healthy and Well Grown.

P. J. BERCKMANS COMPANY, Inc.

FRUITLAND NURSERIES, AUGUSTA, GA.

Est. 1856

Over 450 Acres in Nursery

THE Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.
ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.
RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.
PÆONIAS—Large Assortment, Named Varieties.
DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES. RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK,

When writing to Advertisers mention The National Nurseryman.

LARGEST GROWER IN AMERICA OF GRAPE VINES

OTHER SPECIALTIES

Gurrants and Gooseberries

Introducer of Campbell's Early Grape, Josselyn Gooseberry, Fay Currant.

Over a quarter of a century with no change whatever in ownership or management.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

Geo. S. Josselyn
FREDONIA, N. Y.

OUR GOLDEN ANNIVERSARY

To complete half a century in a business career is indeed a pleasant experience. Such an epoch of success means a great deal. It shows that the services rendered must have merited the patronage and confidence.

Since the day of its inception by the late Thomas Meehan, the business has been conducted on liberal, satisfaction-giving principles. Ever on the alert to improve our methods, a constant desire to make all transactions satisfactory, furnish only first-class stock; in short, maintain a service that would please our patrons. To this policy we owe our success. By working earnestly and conscientiously along these lines is due our prestige—an asset that we prize and value highly.

This season will find us better prepared than ever to serve our customers. Three hundred acres, replete with hardy ornamentals—our specialty—afford an excellent selection. The assortment is complete and sizes range from small seedlings to big specimens. Write for our Spring catalog and "Young Ornamentals."

THOMAS MEEHAN & SONS, INC.
WHOLESALE NURSERYMEN
NURSERY STREET, DRESHERTOWN, PA.

When writing to Advertisers mention The National Nurseryman.

Homes in the South

There are in the Southern States awaiting development, thousands of acres of uncultivated farm lands in tracts of all sizes, which can be purchased very cheaply. They are productive, healthy, and close to good markets. In ten States reached by the lines of the

Southern Railway

For information about opportunities now available, prices of land, character of soils, etc., write to

M. V. RICHARDS

Land and Industrial Agent

Washington, D. C., Southern R'y

We have for Spring shipment a heavy stock of the following:

Evergreens

Arbor-vitae,	12-18 inch.	Norway Spruce,	4-6 inch.
" "	18-24 "	" "	6-10 "
" "	2-3 feet.	" "	10-15 "
Austrian Pine,	4-6 inch.	" "	12-18 "
" "	6-10 "	" "	18-24 "
Col. Blue Spruce,	4-6 "	Pinus Ponderosa,	4-6 "
Douglas, Spruce	4-6 "	Scotch Pine,	4-6 "
" "	6-10 "	" "	6-10 "
Englemanni,	4-6 "	" "	10-15 "
Hovey's Gol. Ar-		White, "	4-6 "
bor vitae,	2-3 feet.		
Hemlock,	12-18 inch.		
" "	18-24 "		
" "	12-3 feet.		

Grapes

One year No. 1 and two year No. 1 and No. 2.

Agawam,	Martha,
Brighton,	Moore's Diamond,
Clinton,	Moore's Early,
Concord,	Niagara,
Delaware,	Pocklington,
Elvira,	Worden,
Empire State.	

We have also a good assortment of Northern Apple, Pear, Cherry and Forest Tree Seedlings, Shade and Ornamental Trees, Weeping Trees, Hedge Plants, Hardy Shrubs, Vines, Roses, Asparagus, Peony's and Palms.

Send us your list of wants.

Sherman Nursery Co.

CHARLES CITY, IOWA.

When writing to Advertisers mention The National Nurseryman.

Capital Nurseries

We offer for Spring the following
strictly first-class stock

APPLE PEACH CHERRY STANDARD PEAR

Grape Vines, Bechtel's Double Flowering Crab
Flowering Shrubs and Vines, Strawberries
Asparagus, 1 year; Elm, Catalpa
Speciosa and Osage Seedlings

SHADE TREES

Box Elder, American Elm, Catalpa Speciosa,
Soft Maple, Weir's Cut Leaf Maple

PETERS & SKINNER

NORTH TOPEKA, KANSAS

A SNAP!

60,000 PEACH.

5-8 and up. 9-16 5-8, 1-2 9-16, 3-4 feet,
2-3 feet, 18-24 in.

20,000 APPLE.

3-4 up. 5-8 3-4, 1-2 5-8.

2,435 CHERRY.

This stock is strictly first class in every respect.
Good roots, etc. Boxing at cost only.
\$100.00 Orders Boxed Free.

Elberta,	M. Ross,	B. Davis,
G. Golden,	Champion,	Wonderfull,
Y. Imperial,	Ear. Richmond,	Sneed,
Early Crawford,	Gano,	Ear. May,
Cap Ede,	Late Crawford,	Huntsman,
	D. House, Etc.	

Special Low Prices Given on Application.

SCHULZE BROS. NURSERY COMPANY,
BRUSSELS, ILL.

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries

W. A. REED, Prop.
VINCENNES, IND.

We offer the following for Spring, a large por-
tion of which is in our storage cellar for early
shipment. Also fair assortment of other stock.

Apple, 2 and 3 Year, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$ and
 $\frac{1}{2}$ to $\frac{5}{8}$.

Peach, 1 year all grades, 40 vari-
eties.

Cherry, 1 year, $\frac{3}{4}$ up, $\frac{5}{8}$ to $\frac{3}{4}$ and $\frac{1}{2}$ to $\frac{5}{8}$.

Pear, Standard Kieffer, Garber and
Wilder. Fair assortment of
others.

Plum on Plum European.

Plum on Peach, 1 year, very fine,
largely Japans.

Soft Maple, Wiers, Cut Leaved and
Elm.

Catalpa Speciosa Seedlings, 1 year.

1851 Knox Nurseries 1904

We offer for Spring 1904, the following thrifty, well-grown stock:
APPLE—3-year. $\frac{3}{4}$ and up and $\frac{5}{8}$ $\frac{3}{4}$. Grimes, Benoni, Y. Trans-
parent, Gano, Wine Sap, Ben Davis, Duchess, Baldwin, York
Imperial, N. W. Greening and a few others.

APPLE—2 year, all grades. Ben Davis, Gano, M. B. Twig, Wine
Sap, Wealthy, Golden Sweet, Benoni, and a few others. Can ship
2-year Apple from Topeka, Kansas, if desired.

PEACH—three grades. Good assortment, but largely Elberta
and Champion. Very fine trees at right prices.

CHERRY—1-year. Still a few choice trees left.

CHERRY—2-year, $\frac{3}{4}$ and up. A few 100 Belle de Choisey,
Baldwin and Louis Phillipi left.

CATALPA SPECIOSA—2 ft.

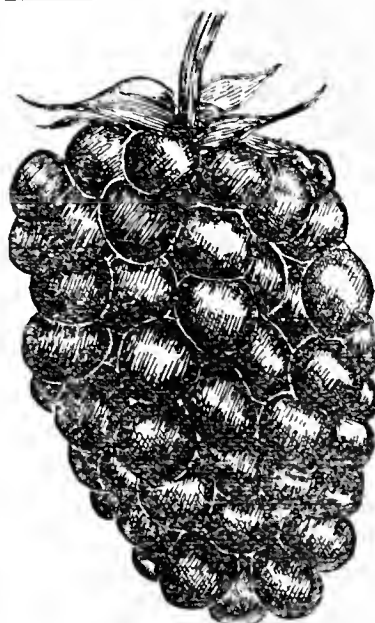
ST. PEAR— $\frac{5}{8}$ $\frac{3}{4}$. Bartlett largely.

PLUM—2-year, $\frac{3}{4}$ and up. Shippers pride.

For Fall of 1904 and Spring of 1905 we will have a large lot of
Cherry, 1-year old, to offer. Let us quote you prices on your wants.

VINCENNES, INDIANA.

H. M. SIMPSON & SONS.



STRAWBERRY and RASPBERRY plants
of all the new and old sorts in large
or small quantity.

PREMO DEWBERRY. No one can afford
to miss giving this a trial.

**ELDORADO, MAXWELL and ICEBERG
BLACKBERRIES.**

PEACH TREES—1 yr. and June Buds. We
have the finest lot of June budded
Peach we ever saw grow, also a
general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

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ELMIRE SEBIRE Fil. Aine,
GROWER AND SHIPPER OF NURSERY STOCK
Ornamentals, trees and shrubs; greens, Conifers, Forest Trees, for spring or fall shipment.
Send for estimates to our sole American agents,

AUGUST RÖLKE & SONS,
P. O. Box 752. 31 Barclay St., New York

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS

RAFFIA FIBRE in Prime Nurserymen's Quality.

PEAR TREES Fine lot of 2 yrs. $\frac{3}{4}$ and up, Stds., Seckel, Koonce, Kieffer, Garber, etc., etc.
Apple 2 yrs. $\frac{3}{4}$ and up, and $\frac{5}{8}$ to $\frac{3}{4}$, in general assortment.
Complete general Nursery stock. Correspondence invited.
South St. Louis Nurseries,
5,600 GRAVOIS AVE., ST. LOUIS, MO.

WARD BLACKBERRY.

THE NEW JERSEY WONDER. Will grow Ward Blackberry Root Cutting Plants on contract for Nurserymen and dealers for fall delivery, 1904. Write for prices. State quantity wanted.

D. BAIRD & SON, Baird, N. J.

ESTABLISHED 1852.

Phoenix Nursery Co.

WE have for Spring shipment a very complete line of Fruit and Ornamental Trees, Evergreens, Shrubs, Roses, Small Fruits, Hedge Plants, Herbaceous Plants, Greenhouse Stock, Etc., Etc. Send list of wants for Spring shipment, Correspondence solicited. Spring Wholesale-List mailed on application.

600 ACRES—13 GREENHOUSES.

P. O. Box 625. BLOOMINGTON, ILL.

HARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,
Proprietor of Beacon Building,
Highlands Nursery, N. C. BOSTON, MASS.

10,000 Plants for 16c
More gardens and farms are planted to Salzer's Seeds than any other in America. There is reason for this. We own and operate over 5000 acres for the production of our warranted seeds. In order to induce you to try them, we make you the following unprecedented offer:
For 16 Cents Postpaid
1000 Early, Medium and Late Cabbages,
2000 Delicious Carrots,
2000 Blanching Celery,
2000 Rich Nutty Lettuce,
1000 Splendid Onions,
1000 Rare Luscious Radishes,
1000 Gloriously Brilliant Flowers.
Above seven packages contain sufficient seed to grow 10,000 plants, furnishing bushels of brilliant flowers and lots and lots of choice vegetables, together with our great catalog, telling all about Flowers, Roses, Small Fruits, etc., all for 16c in stamps and this notice. Mailed in 140-page catalog alone, 4c.
JOHN A. SALZER SEED CO.,
F. La Crosse, Wis.

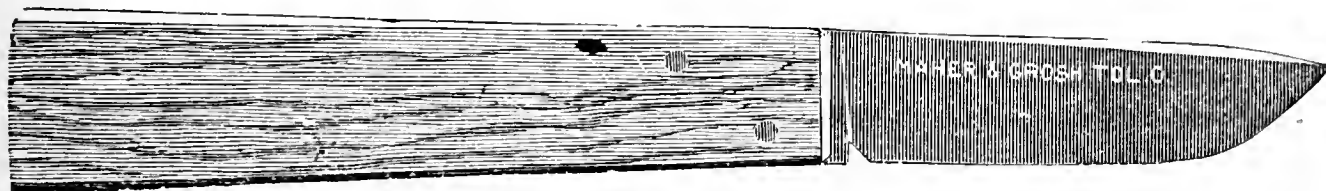
GRAPE VINES
ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.
QUALITY UNSURPASSED.
A fine stock of Campbell's Early.
Catalogue and Price List Free.
Send list of wants for prices
An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.
T. S. HUBBARD CO.,
FREDONIA, N. Y.

1,000 ACRES A General Assortment for Fall 1903 and Spring 1904.
HEAVY STOCK
Peach, Apple, Asparagus, California Privet, 1 and 2 yr.
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,
BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2.25.
BUDDING KNIFE with folding blade, No. 93. By mail 35 cents; 6 for \$1.75.
GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.
SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

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Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

Grape Vines

Stark Grape Nurseries are in the heart of the famous Chautauqua Grape Belt, which produces the finest vines grown in the U. S. An immense stock of the leading sorts, at prices as low as those of any reputable grower. A complete general nursery stock; also **Southern Natural Peach Seed.** **STARK BRO'S**
SEND YOUR WANT LIST FOR PRICES. Portland, N. Y., Louisiana, Mo

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS ❀ ❀ ❀ ❀**

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.
Sole Representatives for the United States.

15,000 Apples 3 Yr., ¾ and Up.

Good Assortment at a SMALL price to close them out. 40 kinds including GRIMES GOLDEN, MAM. BLACK TWIG, BALDWIN, BEN DAVIS, YORK IMPERIAL and FALLAWATER.

CALIFORNIA PRIVET, 40,000 2 year old, at prices that will SAVE you money, the tops are not frozen on this.

West Jersey Nursery, STANTON B. COLE,
BRIDGETON, N. J.

A Snap

Will sell an interest or all of one of the best located Nurseries in the West. New country just being developed and proving one of the best fruit countries in the United States. Land is under term Lease at a cheap rate. Very fine soil for Nursery purposes. Well located for shipping. Plenty of labor cheap and practically no competition within one hundred miles. Reasons for selling have other interests to look after. Price low and terms to suit buyer.

ADDRESS W., CARE NATIONAL NURSERYMAN.

WANTED

An experienced Ornamental Stock Grower—one familiar with propagation and handling of trees and shrubs; also thoroughly acquainted with varieties. Permanent position with large concern for the right man. State particulars fully.

ADDRESS ORNAMENTAL, CARE NATIONAL NURSERYMAN.

Wood Labels for Nurserymen and Florists

BENJAMIN CHASE, DERRY, N. H.

TREE-BOX LUMBER

We are shipping many of the largest nurseries their Tree-Box Lumber, all sized and ready to nail together, and we are SAVING THEM MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

In car lots only.

Write us today for prices.

GOODWILLIE BROTHERS,

Saw Mills and Factory,
WAUSAU, Wis.

407 New York Life Bldg., Chicago, Ill.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

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Cash For Your Surplus Stock

We are in a position to dispose of your Surplus Stock in a very advantageous manner to all who consign their stock to us. We sell on commission and can guarantee quick, prompt and reasonable returns. We sell on our new commission plan

ALL KINDS OF NURSERY STOCK

Small Fruit Plants, Ornamental Trees, Plants and Shrubs, Bulbs, Seeds and Plants of every description. In fact, any thing which proves and is useful or beautiful.

If you have surplus stock why not let us sell it for you? Our commission is as small as is consistent with good service. Through us you may be able to secure just what you need to replenish your stock. Write us your needs as well as your surplus.

IF YOU HAVE ANY SURPLUS STOCK OF ANY KIND YOU WANT TO TRADE FOR CASH WRITE US AND LIST WHAT YOU HAVE AND WE WILL TELL YOU WHAT WE CAN DO.

IF IN NEED OF STOCK OF ANY KIND WRITE US AND WE WILL GIVE YOU PRICES ON WHAT YOU WANT.

If you have Surplus Stock to sell, or if you want to buy, be sure to write to us. We may be able to exchange the stock you do not need for just what you want.

INDIANAPOLIS NURSERY CO.,
INDIANAPOLIS, INDIANA.

The Shenandoah Nurseries

SHENANDOAH
I O W A

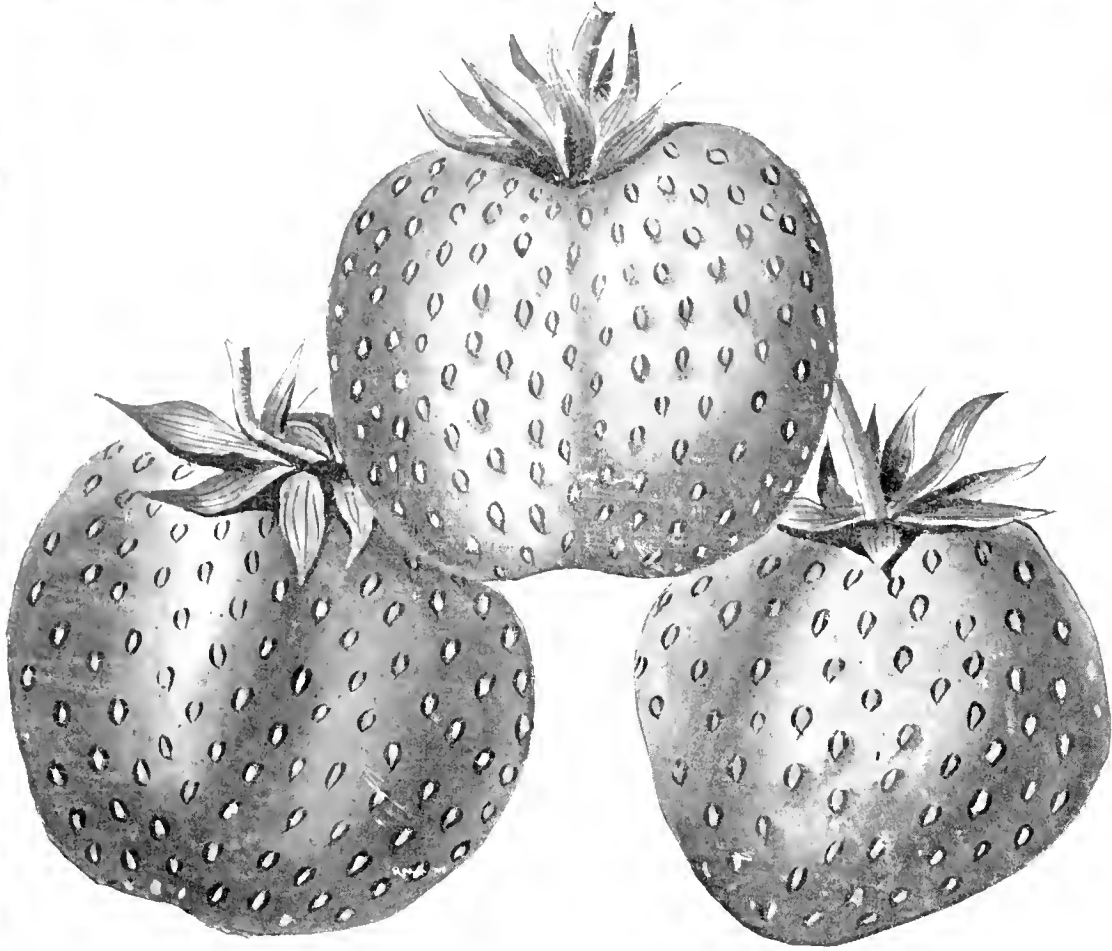
We have in storage

at ROCHESTER, N. Y., for early spring shipment, the following stock. Same is well-graded and first-class in every respect:

APPLES—general assortment, $\frac{3}{4}$ inch and up.
PEARS—standard, including Kieffer, $\frac{3}{4}$ and up, $\frac{5}{8}$ - $\frac{3}{4}$.
PLUMS—Eup. and Jap, $\frac{3}{4}$ and up, $\frac{5}{8}$ - $\frac{3}{4}$, $\frac{1}{2}$ - $\frac{5}{8}$.
CHERRIES—sour, good assortment, $\frac{3}{4}$ and up, $\frac{5}{8}$ - $\frac{3}{4}$, $\frac{1}{2}$ - $\frac{5}{8}$, $\frac{3}{8}$ - $\frac{1}{2}$.
GRAPES—good assortment, Fredonia grown.
NOR. MAPLE—5-6, 6-8, 8-10 ft.
C. L. W. BIRCH—4-5 and 5-6 ft.
TEAS. WEEP. MULBERRY—1 yr. hds.
CURRANTS.
ROSES—H. P. and Crimson Rambler
TREE ROSES—Clematis.
WEIGELIAS—SPIREAS—SYRINGAS.
HYDRANGEAS—Bush and Tree Form.
HORSE CHESTNUT—5-6 and 6-8 ft.
KIL. WILLOWS—1 and 2 yr. hds.

Send list of wants for prices, after March 5th, 1904, to Mr. J. H. Wallace, Rochester, N. Y., in care of Jackson's Temperance Hotel, or to D. S. Lake, Prop., Shenandoah, Iowa.

WE ARE READY--STRAWBERRY PLANTS ... IN SEASON



**Estimated Surplus List of Plants and Trees
Sent Free upon Application.**

Special Price for Early Spring Orders

Plants packed in the best possible condition in slatted crates Guaranteed to reach any part of the United States in first class condition. 500 at thousand rates and five varieties may be selected in making up one thousand.

15,000—Auto,	20,000—Lester Lovett,
50,000—Aroma,	8,000—Marie,
5,000—Bush Cluster,	10,000—McKinley,
350,000—Bubach,	300,000—Kansas,
50,000—Bismarck,	50,000—Marshall,
40,000—Beder Wood,	210,000—Mitchell's Early,
100,000—Brandywine,	60,000—Nick Ohmer,
18,000—Clyde,	60,000—Ocean City,
225,000—Crescent,	30,000—Parker Earle,
10,000—Dayton,	400,000—Parsons,
100,000—Early Hathaway,	175,000—Rough Rider,
100,000—Excelsior,	50,000—Rio,
300,000—Eleanor,	20,000—Star,
500,000—Gandy,	775,000—Sharpless,
150,000—Gladstone,	400,000—Sample,
60,000—Glen Mary,	10,000—Smith,
700,000—Haverland,	20,000—Superior,
5,000—Hero,	900,000—Tennessee,
110,000—Johnson's Early,	5,000—Thompson's Early,
50,000—Jesse,	4,000—Uncle Jim,
450,000—Louis Huboch,	250,000—Warfield,
10,000—Lovetts,	75,000—Wm. Belt,
12,000—Livingston,	9,000—Yant.

PEACH, READY FOR EARLY SPRING SHIPMENT

5 to 8 ft., 5 to 6 ft., 4 to 6 ft., 4 to 5 ft., 3 to 4 ft., 2 to 3 ft., $\frac{3}{4}$ and up, $\frac{5}{8}$ to $\frac{3}{4}$, 9-16 to $\frac{5}{8}$, $\frac{1}{2}$ to 9-16, $\frac{3}{8}$ to $\frac{1}{2}$.

ELBERTA—June Buds

Arkansas Traveler,	Early Michigan,	Old Mixon Free,
Admiral Dewey,	Foster,	Oscar,
Alexander,	*Frances,	Picquet's Late,
Bokara,	Gold Drop,	Pearce's Yellow,
Barber,	Greensboro,	Reeve's Favorite,
Bronson,	Geary's Hold On,	Stump,
Beauty Blush,	Globe,	Scott's Nonpareil,
Buston's Oct.,	Garfield,	Sunrise Cling,
Bilyeu's Late,	Gordon,	Steadley,
Brandywine,	Hieley, (Early Belle),	Shipley's Late Red,
Bequet Free,	Hill's Chili,	Slappey,
Barnard's Early,	Holderbaum,	Smock, (Beer's.)
Burke,	Haines' Surprise,	Snow's Orange,
Conklin,	Heard's Beauty,	Silver Medal,
Coolidge Favorite,	Hughes,	Smock Cling,
Crawford's Late,	Hobson's Choice,	Schumaker,
Cobler,	Heidelberg,	Switzerland,
Christiana,	Jennie Worthien,	*Triumph,
Chair's Choice,	Jacque's R. R.,	Tillotson,
Connett's Early,	Kalamazoo,	Victor,
Carman,	Levy's Late,	Van Meteor's L. Oct.,
Dover,	Lorentz,	Ward's Late,
*Elberta,	Lewis,	Waterloo,
Early Rivers,	Marshall,	Wheatland,
Engles, Mammoth,	Miss Lolo,	Wonderful,
Emma,	Magnum Bonum,	Waddell,
Everbearing,	Mamie Ross,	Wager,
Early Heath,	Matthew's Beauty,	Wheeler's Late,
Early York,	Moore's Favorite,	William's Favorite,
Early Toledo,	Mrs. Bret,	Yellow St. John,
Early Davidson,	Mary's Choice,	Yellow R. R.,
Eureka,	New Prolific,	

APPLE SCIONS

10,000—Stayman's Winesap,	20,000—Stark,
10,000—Grimes' Golden,	10,000—Northern Spy,
20,000—Gano,	5,000—W. S. Paradise,
70,000—Baldwin,	10,000—M. B. Twig,
70,000—N. W. Greening,	10,000—Lankford,
100,000—Ben Davis,	10,000—Fallawater,
10,000—Maiden's Blush,	10,000—Wine Sap,
20,000—King,	5,000—Pewaukee,
20,000—R. I. Greening,	100,000—Kieffer Pear.

APPLE TREES

5 to 6 ft., 4 to 6 ft., 4 to 5 ft., 3 to 5 ft., 2 to 3 ft., $\frac{3}{4}$ and all up, $\frac{5}{8}$ to $\frac{3}{4}$, 9-16 to $\frac{5}{8}$, $\frac{1}{2}$ to 9-16.

Autumn Strawberry,	Limber Twig,	Sweet Bough,
Alexander,	Lankford Seedling,	Sweet June,
Ben Davis,	Maiden's Blush,	Scott's Winter,
Baldwin,	Mammoth Black	Salome,
Cooper's Market,	Twig,	Shackelford,
Coffelett,	Mann,	Strak,
Cart House,	Minkler,	Tulpehocken,
Dutchess,	McIntosh,	Tolman Sweet,
Dominie (Winter	Northern Spy,	Wagner,
Rambo.)	N. W. Greening,	Willow Twig,
Early Harvest,	Paradise Winter	Wine Sap,
Fallawater,	Sweet,	Wealthy,
Fameuse,	Pewaukee,	Wolf River,
Golden Sweet,	Red Astrachan,	Walbridge,
Gravenstein,	Ranibo,	Yellow Transparent,
Grimes' Golden,	Rome Beauty,	
Gano,	Ribston Pippin,	
Hubbardston's	Rolle,	
Nonsuch,	Roxbury Russett,	
Indian,	Rawles' Janet,	
Jonathan,	Roman Stem,	
Lawyer,	Stayman's Wine Sap,	

CRABS

Florence,
Golden Beauty,
Martha,
Whitney,

FRENCH GROWN APPLE SEEDLINGS

Just imported from France. We offer a few reported stocks:

50,000 Apple, 6 to 10 m. m.

50,000 " 7 to 12 m. m.

HOLLAND GROWN.

62,000 Apple, 4 to 6 m. m.

30,000 " 3 to 5 m. m.

FRENCH GROWN.

50,000 Pear 7 to 12 m. m.

16,500 Mahaleb Cherry, one year 6 to 10 m. m.

10,000 " " " 3 to 5 m. m.

20,000 Manetta Roses, first choice.

KIEFFER PEAR

All grades extra fine 2 year, also assorted pear.

Early Richmond and Montmorency Cherry.

Asparagus Roots and Grape Vines.

Wholesale price list just out. Order at once before varieties are broken.

J. G. HARRISON & SONS

BERLIN, MD.

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May, 1904

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

SURPLUS, SPRING 1904

150,000 California Privet, fine plants.
25,000 Peach, first-class, 6 to 8 ft.
15,000 Cherry, 3 to 4 ft. and 2 to 3 ft.
10,000 Japan Plums, (fine) $\frac{3}{4}$ up and $\frac{5}{8}$ to $\frac{3}{4}$, 6 to 8 ft.
6,000 Shropshire Damson, $\frac{1}{2}$ to $\frac{5}{8}$, and $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 7 ft.
4,000 Carolina Poplar, 2 year, 10 to 14 ft.
2,000 Sugar Maple, $1\frac{1}{2}$ to 2 in., 10 to 12 ft.
1,000 American Elm, $1\frac{1}{2}$ to 2 in., 12 to 14 ft.
600 American Linden, $1\frac{1}{2}$ to 2 in., 12 to 15 ft.
200 Bushels small Peach Pits, crop 1903, at cost.

WANTED—Apple and Pear Trees, Apple Seed, Apple Seedlings and Ornamental Seedlings.

SURPLUS

Apple Trees

Root Grafts

Forest Seedlings

A full line of SHADE and ORNAMENTAL TREES and SHRUBS.

WRITE FOR PRICES.

YOUNGERS & CO., Geneva, Neb.

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

WEST

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

●———TO ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

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St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

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Specialties for Fall

CHERRIES. PLUMS. MULBERRIES.
WALNUTS—ENGLISH AND JAPAN. PECANS.
EXOCHORDA. LILACS. LONICERAS.
HYDRANGEAS—FIELD GROWN, STRONG.
THOS. HOGG, ROSEA, ETC.
CAMELLIAS, AZALEAS, GARDENIAS, MAGNOLIAS.
HEDGE PLANTS:
AMOR RIVER AND CALIFORNIA PRIVET IN
LARGE QUANTITIES.
CITRUS TRIFOLIATA. BERBERIS THUNBERGII.
SPIROEA THUNBERGII.
BIOTA MUREA NANA. CEDRUS DEODARA.
LIBOCEDRUS DECURRENS.
JUNIPERS. RETINOSPORAS.
ORANGES, LEMONS AND OTHER CITRUS FRUITS.
300,000 PALMS.
KENTIAS, LATANIAS, PHOENIX.
FIELD GROWN ROSES—Own Roots and Budded.
NO SCALE and Everything Healthy and Well Grown.

P. J. BERCKMANS COMPANY, Inc.

FRUITLAND NURSERIES, AUGUSTA, GA.

Est. 1856

Over 450 Acres in Nursery

THE Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PÆONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

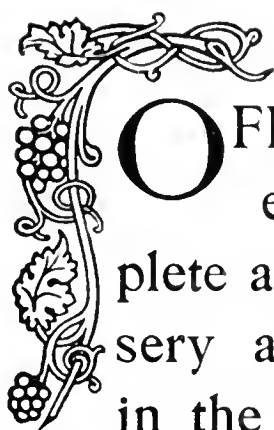
Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to Advertisers mention The National Nurseryman.

Painesville Nurseries



OFFER one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, including **Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.**

CALL ESPECIAL ATTENTION TO OUR STOCK FOR SPRING OF 1904 OF

Standard and Dwarf Apples, Standard and Dwarf Pears, Cherries, Plum and Peaches.

Grape Vines — Large lot Fredonia grade.

Small fruits a fair stock of most kinds. Many leading varieties will be short. Early orders advised. Our plants are graded, handled and packed right.

Roses—Hybrid Perpetual and Climbers including the largest lot of Crimson Ramblers in the country.

Shrubs, Climbing Vines, Perennial Plants—In fine assortment including fine lot Ampelopsis Veitchii, Clematis Paniculata, California Privet, Berberry in variety, Japan Quince, etc.

From Holland--Our importations are large and stock never in better condition. Rhododendrons, Hardy Azaleas, Tree Roses, Tree Hydrangea, Magnolias with ball. Flowering Thorns, Purple Filberts, two and three year Clematis, etc.

Some Bargains in light grade Apple and Peach.

Glad to estimate on your list of wants.

Descriptive Catalogue, complete new edition, one of the best and most comprehensive ever issued, free to the trade.

Visitors always welcome. The new C. P. & A. Electric R. R. has stop on our grounds.

The Storrs & Harrison Co.
PAINESVILLE, OHIO

TREES

Fruit and Ornamental.

**Shrubs
Evergreens
Roses
Hardy Plants**

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on request.

ELLWANGER & BARRY,

Nurserymen-Horticulturists.

**MOUNT HOPE NURSERIES,
Rochester, N. Y.**

Established 1840.

Mention this publication.

The Fruit Grower



(TRADE MARK.)

BROTHER JONATHAN.

for March carried a greater volume of advertising than any other farm paper in America. This is because its advertisers get results in this, "the handsomest farm paper printed." Send for sample.

OVER 30,000 A MONTH GUARANTEED.

Advertising rate 15c. a line. Write for special information regarding The Fruit Grower for next season. Start your advertising campaign early for fall trade.

**W. C. CAMPBELL, JR. AND JAMES M. IRVINE,
BADGE No. 25,**

Will represent The Fruit Grower at the meeting of the Nurserymen's Association at Atlanta, June 22-24. Do not fail to interview them and regarding advertising and catalogue printing. The Fruit Grower Co. has one of the best equipped plants in the country for this purpose, and makes a specialty of catalogues for Western nurserymen.

THE FRUIT GROWER CO.,

331 S. 7TH STREET,

ST. JOSEPH, MO.

When writing to Advertisers mention The National Nurseryman.

THEY GROW INTO MONEY

ROSES

From 2 1-2 Inch Pots

Plant a few thousand of these now on good land and by fall they will have trebled in value.

HYBRID PERPETUALS

Alfred Colomb, crimson; Anne de Diesbach, pink; Baron de Bonstettin, maroon; Caprice, striped; Caroline, de Sansel, rose; Cl. Jules, Margottin, pink; Clio, flesh; Coquette des Alps, white; Coquette des Blanches, white; Duc de Rohen, vermillion; Fisher Holmes, crimson; Gen. Jacqueminot, crimson; Gen. Washington, red; Gloire de Margottin, scarlet; John Hopper, pink; John Keynes, maroon; Jules Margottin, carmine; La Reine, rose; Mme. Gabriel Luizet, rose; Mme. Georges Bruant, white; Mme. Plantier, white; Magna Charta, rose; Marchioness of Lorne, red; Margaret Dickson, white; Marshall P. Wilder, crimson; Maurice Bernardin, red; Mrs. Cleveland, flesh; Mrs. John Laing, pink; Mrs. Sharman-Crawford, rose; Oakmont, pink; Paul Neyron, pink; Pierre Notting, maroon; Pride of Waltham, carmine; Prince Camille de Rohan, maroon; Ulrich Brunner, red; Victor Verdier, rose.

TEAS AND HYBRID TEAS

Aggripina, red; Bon Silene, crimson; Bridesmaid, pink; Caroline Marniesse, white; Catherine Mermet, pink; Champion of the World, pink; Clothilde Soupert, flesh; Duchess of Albany, pink; Hermosa, rose; Kaiserin A. Victoria, white; La France, pink; Maman Cochet, rosy-carmine; Marie Guillot, white; Mrs. Degraw, pink; Meteor, crimson; Pink Soupert, deep pink; Perle des Jardins, yellow; Queen's Scarlet, scarlet; Souvenir de la Malmaison, flesh; Sunset, yellow.

CLIMBING AND RAMBLER ROSES

Baltimore Belle, blush; Crimson Rambler, crimson; Empress of China, red; Gloire de Dijon, creamy; Helene, rose; Marechal Neil, yellow; Pink Rambler, (Euphrosyne) pink; Queen of the Prairies, red; Russell's Cottage, crimson; Seven Sisters, pink; Tennessee Belle, blush; White Rambler, (Thalia), white; Wichuriana, white; Yellow Rambler, (Aglaia), lemon.

Dorothy Perkins, new, shell-pink.

MOSSSES

Blanche Morreau, white; Blanche Robert, white; Crimson Globe, crimson; Princess Adelaide, pink,

SEND FOR DESCRIPTIVE PRICE-LIST.

**JACKSON & PERKINS CO.
Newark, N. Y.**

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ELMIRE SEBIRE Fils Aine,
Ussy, Calvados, France
GROWER AND SHIPPER OF NURSERY STOCK
Ornamentals, trees and shrubs; Evergreens, Conifers, Forest Trees, for spring or fall shipment.
Send for estimates to our sole American agents,

AUGUST RÖLKER & SONS,
P. O. Box 752, 31 Barclay St., New York
Importers of **NURSERY STOCKS, FRUIT and TREE SEEDS**
RAFFIA FIBRE in Prime Nurserymen's Quality.

Georgia Nursery For Sale

40 acres best land in Cobb County.
Full line of Young Stock.
For further information address,

NURSERY, P. O. BOX 182, AUSTELL, GA.

WARD BLACKBERRY.

THE NEW JERSEY WONDER. Will grow Ward Blackberry Root Cutting Plants on contract for Nurserymen and dealers for fall delivery, 1904. Write for prices. State quantity wanted.

D. BAIRD & SON, Baird, N. J.

The Fraser Nursery

JOHN FRASER, PROP.
HUNTSVILLE, ALA.

I will commence June Budding the end of May. I offer to grow special orders of June Buds of PLUM AND PEACH for next fall delivery. I have a complete assortment of varieties true to name.

I ALSO OFFER FOR FALL,

STANDARD PEAR, one and two years. CHERRY, one and two years; PECANS, one and two years; MULBERRYS, one year, large grades; MAGNOLIA GRANDIFLORA, three years; CALIFORNIA PRIVET, one year; MANETTI, MULTIFLORA and MARIANA STOCKS. DWARF BOX, H. P. MOSS, PLANTIER, NEIL and PRAIRIE ROSES.

WRITE FOR PRICES.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,
Proprietor of Beacon Building,
Highlands Nursery, N. C. BOSTON, MASS.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD.

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.

HEAVY STOCK

each, Apple, Asparagus, California Privet, 1 and 2 yr.

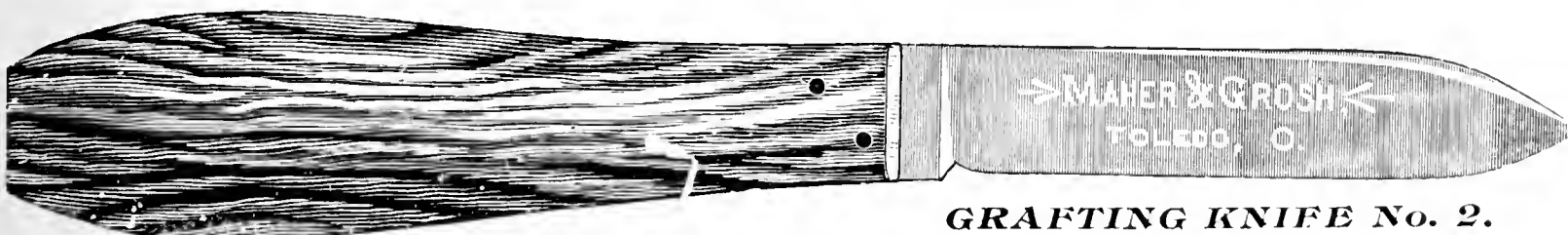
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



GRAFTING KNIFE No. 2.

Cut is exact size of our Grafting Knife No. 2. Sample, by mail, 20 cents. 6 for \$1.00.
No. 1 has a "sheep foot" blade and is larger. Sample; by mail, 25 cents. 5 for \$1.00.
Budding Knife, riveted in handle, 25 cts. 12 for \$2.25, postpaid. Pocket Budder, 35 cents.
Pruning Knife, riveted in handle, 50 cents. 5 for \$2, postpaid. Pocket Pruner, 75 cents.

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

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Nurserymen's KNIVES

Hand forged. Razor steel. Warranted. Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and sent free to all who ask for one.

Capital Nurseries

We offer for Spring the following
strictly first-class stock

APPLE PEACH CHERRY
STANDARD PEAR

Grape Vines, Bechtel's Double Flowering Crab
Flowering Shrubs and Vines, Strawberries
Asparagus, 1 year; Elm, Catalpa
Speciosa and Osage Seedlings

SHADE TREES

Box Elder, American Elm, Catalpa Speciosa,
Soft Maple, Weir's Cut Leaf Maple

PETERS & SKINNER
NORTH TOPEKA, KANSAS

Homes in the South

There are in the Southern States
awaiting development, thousands
of acres of uncultivated farm lands
in tracts of all sizes, which can be
purchased very cheaply. They are
productive, healthy, and close to
good markets. In ten States
reached by the lines of the

Southern Railway

For information about opportunities
now available, prices of land,
character of soils, etc., write to

M. V. RICHARDS
Land and Industrial Agent
Washington, D. C., Southern R'y

1851 Knox Nurseries 1904

We offer for Spring 1904, the following thrifty, well-grown stock:
APPLE—3-year. $\frac{3}{4}$ and up and $\frac{5}{8}$ - $\frac{3}{4}$. Grimes, Benoni, Y. Trans-
parent, Gano, Wine Sap, Ben Davis, Duchess, Baldwin, York
Imperial, N. W. Greening and a few others.

APPLE—2-year, all grades. Ben Davis, Gano, M. B. Twig, Wine
Sap, Wealthy, Golden Sweet, Benoni, and a few others. Can ship
2-year Apple from Topeka, Kansas, if desired.

PEACH—three grades. Good assortment, but largely Elberta
and Champion. Very fine trees at right prices.

CHERRY—1-year. Still a few choice trees left.

CHERRY—2-year, $\frac{3}{4}$ and up. A few 100 Belle de Choisey,
Baldwin and Louis Phillipi left.

CATALPA SPECIOSA—2 ft.

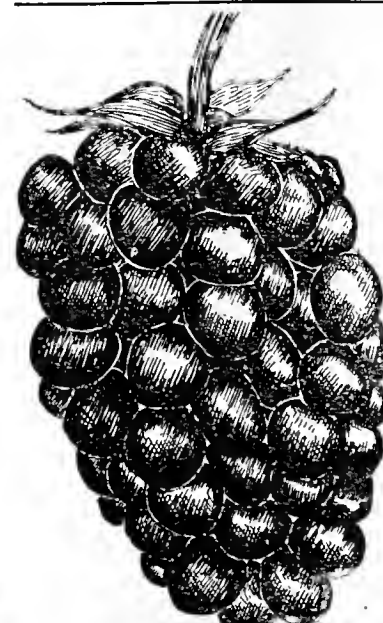
ST. PEAR— $\frac{3}{4}$ - $\frac{5}{8}$, Bartlett largely.

PLUM—2-year, $\frac{3}{4}$ and up. Shippers pride.

For Fall of 1904 and Spring of 1905 we will have a large lot of
Cherry, 1-year old, to offer. Let us quote you prices on your wants.

VINCENNES, INDIANA.

H. M. SIMPSON & SONS.



STRAWBERRY and RASPBERRY plans
of all the new and old sorts in large
or small quantity.

PREMO DEWBERRY. No one can afford
to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG
BLACKBERRIES.

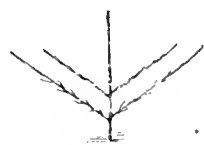
PEACH TREES—1 yr. and June Buds. We
have the finest lot of June budded
Peach we ever saw grow, also a
general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

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16 GOLDEN MEDALS.

52 SILVER MEDALS.



**SHIPMENTS TO ALL
COUNTRIES.**

PAUL HAUBER,

Nurseryman,

TRAINED FRUIT TREES A SPECIALTY.

TOLKEWITZ - DRESDEN, GERMANY.

Branch Nursery for Evergreens,
Schweizermühle, Königstein.

Correct trained fruit trees in all shapes and in
the best kinds fit for this country.

Standard Apple, Pear, Cherry, Plum, Peach and
Apricot Trees.



Standard Gooseberries and Currants
(3-4 feet high.)

Rose Bushes as well as Standard Roses.
Strawberries and Evergreens.

PRICES ON APPLICATION.



ILLUSTRATED CATALOGS FREE ON REQUEST.

ONLY FIRST CLASS QUALITY.

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E. T. DICKINSON, CHATENAY SEINE,
FRANCE

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

GULF CYPRESS

Greenhouse Material

CUT AND SPLICED READY FOR ERECTION
Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus



GLASS at Wholesale

Try our Seal Tight Liquid Putty
Sample Gallon, 75 cents

S. JACOBS & SONS

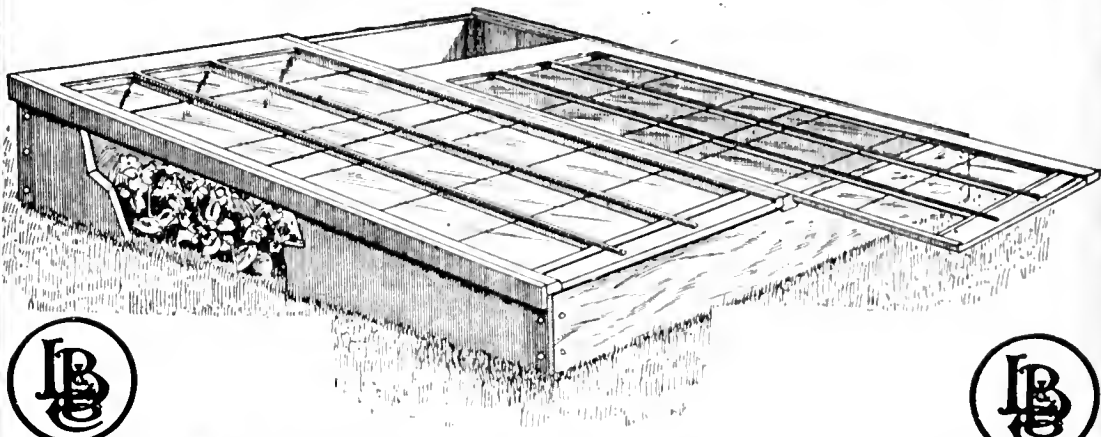
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1365 to 1373 Flushing Avenue
BROOKLYN, N. Y.

We furnish everything for building.
Send for prices and catalogue

Hot-Bed Sash and Frames FOR GROWING VEGETABLES, VIOLETS, ETC.

OUR SASH ARE STRONG AND DURABLE, CONSTRUCTED OF RED GULF CYPRESS
"The Best is the Cheapest." An Iron Rod is run through the centre of all the Sash Bars, tying the Sash and giving support to the Bars. All joints are white leaded and are held with steel dowel pins.



Greenhouse Material, "Special Putty and Greenhouse Glass" always carried in stock.

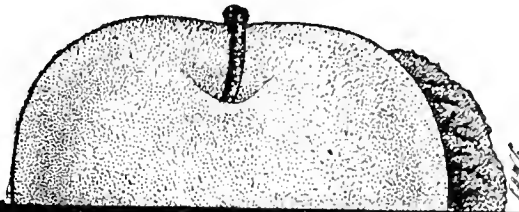
Send ten cents to our New York Office for Greenhouse Construction Catalogue, also Greenhouse Heating and Ventilating Catalogue, five cents postage for each.



Write to-day for price-list of Hot Beds

LORD & BURNHAM CO.

N. Y. Office, St. James Building, 1133 Broadway
Gen'l Office & Wks., Irvington-on-Hudson, N. Y.



Spray Apple Trees.

There's no other way to get right fruitage. Its mounted barrel tank, submerged brass cylinder, bronze ball valves and automatic agitation make the

CENTURY SPRAYER

the ideal for all orchard operations. All kinds sprayers for all purposes. 20 styles, Hand, Bucket, Knapsack, Barrel, Field, Power. Special needs all met. Catalog free. Booklet on insects and fruit diseases 10c.

THE DEMING CO., SALEM, OHIO.

Hendon & Hubbell, Western Agents, Chicago, Ills.

TREE-BOX LUMBER

We are shipping many of the largest nurseries their Tree-Box Lumber, all sized and ready to nail together, and we are SAVING THEM MONEY.

DRY, RESAWED STOCK, REGULAR LENGTHS, PROMPT SHIPMENT.

In car lots only.

Write us today for prices.

GOODWILLIE BROTHERS,

Saw Mills and Factory,
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Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

No Frozen Trees! No Black-Heart!

STANDARD

APPLE AND PEAR

In Car Load Lots.

Complete assortment of varieties ; heavy grades.

Write for prices.

Send want list.

WE EQUALIZE FREIGHT RATES.

Pioneer Nurseries Company

SALT LAKE CITY, UTAH

THE WILLADEAN NURSERIES

Offer in surplus for SPRING 1904, all kinds of first class Nursery Stock

SPECIAL LOW PRICES

will be quoted on Apples, Plums, Cherry and Asparagus, Sweet Gum, Tulip, Silver Maples, Am. Elm, Scotch Elm, Oaks in variety, Magnolia Accuminata, Ash in variety, Catalpas, Cypress, Yellow Wood, Red Bud, Am. Sycamore, Paulownia and others. All sizes from 4 to 15 feet. Spirea Van Houtti, Hydrangeas, Weigelas, Lilacs, Berberry, Deutzias, Cut Leaf Elder, Purple Fringe, Syringas, Snowberry and many other Shrubs. Seedlings such as Catalpas, Mulberrys, Oaks, Maples, Sweet Gum, Ailanthus, Hackberry, Red Bud, Calycanthus, Snowballs, Hydrangeas, and others, Paeonias, Perennials, etc. Send your list of wants for special prices. Correspondence solicited.

The Donaldson Co.

Successors to DONALDSON & GIBSON

WARSAW, KY.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

Peach Trees Full assortment of varieties, lalseiz s

Kieffer Pear 2-year, 3/4 up, on Imported Stocks.

Apple 2-year, 3/4 up and 5/8 to 3/4.

Ben Davis, Gano, York Imperial, Baldwin.

Above surplus in carloads or smaller quantities for winter or early spring shipments.

All grown on Missouri River upland, 50 to 250 ft. above the flood line.

WRITE FOR PRICES.

New Haven Nurseries

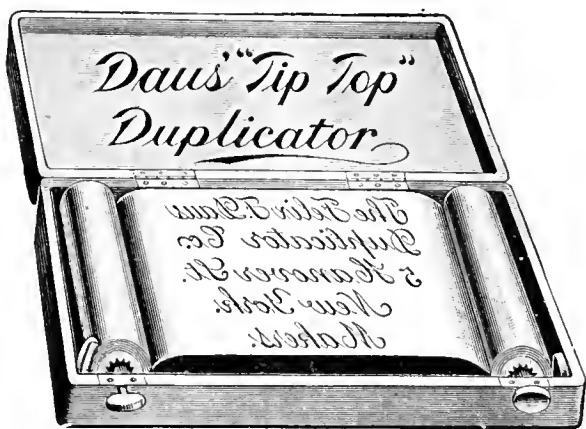
NEW HAVEN, Mo.

P. O U W E R K E R K

1123 SUMMIT AVENUE

JERSEY CITY, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnoleas, Box Trees, Fancy Conifers, Hydrangeas and Shrubs our specialities at our **HOLLAND NURSERIES**. Some of the goods on hand here during the packing season.



WHAT IS "TIP-TOP"?
... DAUS'

TO PROVE that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

100 copies from Pen-written and 50 copies from Type-written original

we are willing to send a complete "Duplicator" without deposit on **TEN DAYS** trial.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33 1/3 per cent., or \$5.00 net.

FELIX F. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

WOOD LABELS OF EVERY DESCRIPTION

For Nurserymen and Florists

DAYTON FRUIT TREE LABEL CO.

South Canal Street, Dayton, Ohio

When writing to Advertisers mention The National Nurseryman.



POTS! POTS! POTS!

We are manufacturers of *Standard Flower Pots* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY, 213-23 Pearl Street
NORRISTOWN, PA.

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS ❀ ❀ ❀ ❀

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.

Sole Representatives for the United States.

\$\$\$ SAVED \$\$\$

by those who buy "FALLS BRAND" Carbon Paper
and Typewriter Ribbons.

BRIGHT COLORS, CLEAN, SHARP AND LASTING.

To introduce these goods to you we will, on receipt of \$1.00, send two dozen sheets Carbon Paper 8 x 13 and a Typewriter Ribbon to fit your machine.

	Regular Price per Box of 108 Sheets.	
Medium Weight,	- - \$2.50	Light Weight, - - \$3.00

Ribbons 75c. each, or \$6.00 per dozen.

All goods delivered free of carrying charges.

Satisfaction guaranteed or money refunded.

Reference: Rochester Trust and Safe Deposit Co.

STATIONERY SUPPLY CO., Rochester, N. Y.



THE ARNDT TREE PROTECTOR

A perfect, inexpensive protection against all creeping and crawling insects. Agents wanted everywhere.

WRITE AT ONCE Michigan Cut Flower Exchange

WM. DILGER, Mngr., Sole Distributors,
DETROIT, MICH., U. S. A.

RAFFIA

BEST grades of Madagascar Raffia for Nurserymen.

Orders for bale (225lbs.), or more from stock or for direct import. Write for prices.

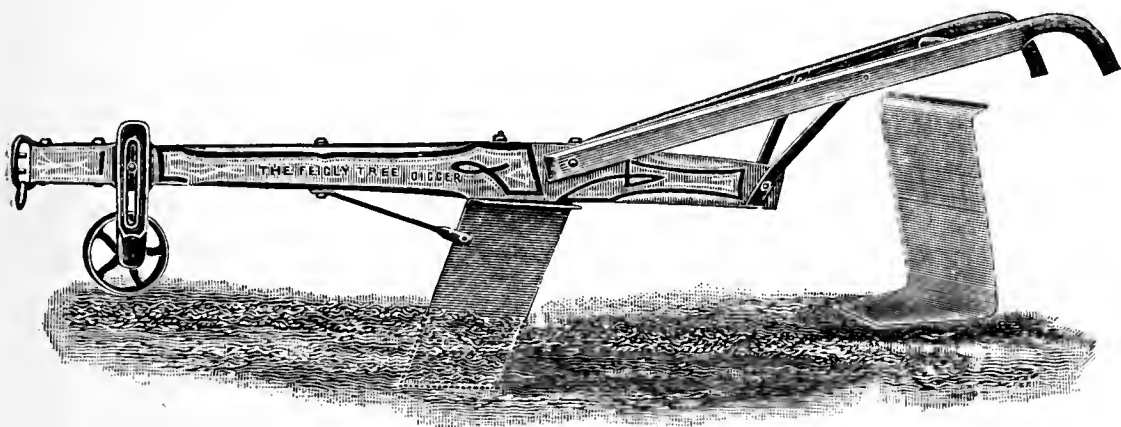
McHUTCHISON & CO., 218 Fulton St., NEW YORK.

An experienced Stenographer, familiar with the wholesale nursery business, would like a position as correspondent in the collection department of some large firm.

Address F. care NATIONAL NURSERYMAN.

Wood Labels for Nurserymen and Florists

BENJAMIN CHASE, DERRY, N. H.



THE IMPROVED FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

D. FEIGLY, Medway, O. Sole Agent. Send for Circular.

When writing to Advertisers mention The National Nurseryman.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1903, AND SPRING, 1904

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

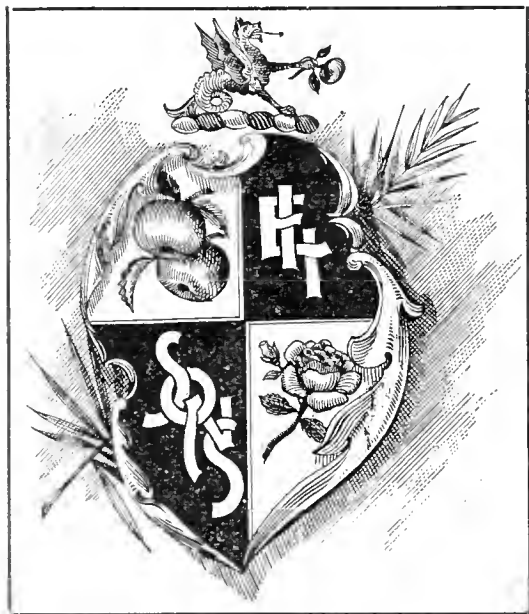
All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited.

When writing to Advertisers mention The National Nurseryman.

F. N. Stannard & Co.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery
Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseber-
ries and Currants. Also Ornamental Trees
and Shrubs

Dreer Specialties in Hardy Plants

Hardy and Tender Water Lilies and Nelumbiums. Most extensive
collection, including all the standard varieties as well as a complete
assortment of American and French novelties.

Hardy Perennial Plants

Most extensive collection in America.

Japanese Anemones, Aquilegias, Hardy Asters, Campanulas, Hardy
Chrysanthemums, Delphiniums, Helianthus, Hemerocalis, Double
Hollyhocks, Iris, Paeonias, Phlox, Pinks, Poppies, Primroses, Stokesia,
Rudbeckias, Tritoma Pfitzeri, etc.

Hardy Vines

Ampelopsis, Akebia, Aristolochia, Clematis, Ivies, Wisterias, etc.

Roses

A most complete list of Hybrid Perpetual and Everblooming
varieties. Our Roses have been all potted during the winter, stored
in cold houses, consequently can be shipped until late in the season.

The New Blue Conifer, *Retinispora Sanderi*

A most important addition to the list of Evergreens

Rhododendrons, Hardy Azaleas, Hydrangea Paniculata Grandiflora.

For a complete list of Hardy Plants as well as for a full line of
Decorative Florists' Stock such as Palms, Ferns, Rubber Plants,
Pandanus, Summer Flowering Bulb, etc., see our Quarterly Wholesale
List which is mailed free to the trade on application.

HENRY A. DREER, Philadelphia, Pa.

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BRIDGEPORT NURSERIES

For Fall 1904 and Spring 1905

We will have our usual large supply and complete assortment of stock for the TRADE in CAR-LOAD or SMALLER LOTS.

For early orders special prices will be named.

Apple, Pear, Plum, Cherry, and Quince can be shipped from Dansville, New York.

Apple Trees and **Apple Seedlings** can be shipped from TOPEKA, KANSAS.

From Bridgeport, Indiana, we are prepared to ship a complete assortment of **Hardy Fruit** and **Ornamental Trees, Plants, Vines, Seedlings, etc.**

Send us your list of wants before placing orders, and we will make you prices.

Personal inspection invited—come and see us.

Spades, the BEST and CHEAPEST. **Excelsior** (baled) the best packing material for either shipping or storage (cheaper and far superior to Moss.)

Box Straps, soft steel.

Our storage and shipping facilities are unsurpassed.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport, Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

NURSERY FOR SALE

The entire plant, including business, implements, tools, etc., of the Nursery Department of Ortiz Fruit Farm, Mexico, Mo., for sale. For particulars address,

**C. F. CLARK, ASSIGNEE,
MEXICO, MO.**

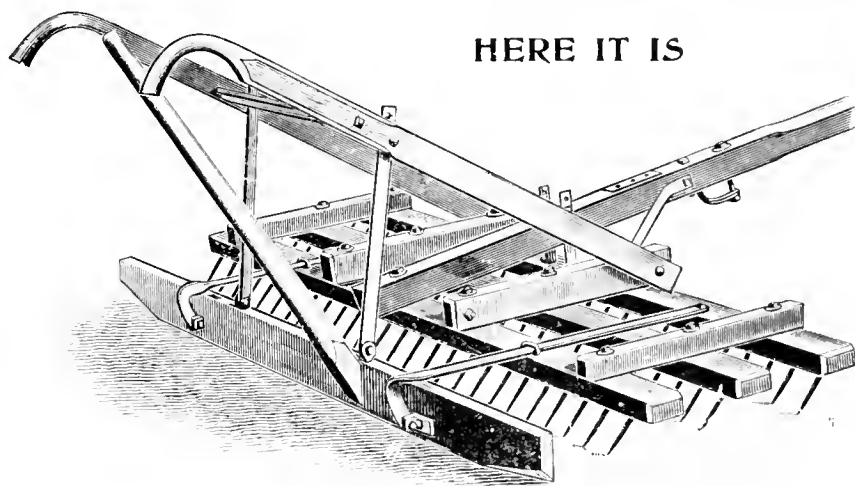
FOR NURSERYMEN

In preparing their ground to plant Grafts and other small stuff, or for the small fruit grower and gardener, something is wanted to finish off the ground and get it in the very best condition for good results.

You get it in our

SMOOTHING AND LEVELING HARROW

HERE IT IS



Two-Horse 8-foot Smoothing Harrow

With this tool every field can be made as smooth as a floor and the soil pulverized fine enough for a flower bed—makes a most perfect onion bed. Will smooth an acre as true as a mill pond in twenty minutes.

This harrow is also a great road maker. One man, with team, can make a perfect trotting track of any road. It is adjustable with a lever, by which the entire action is controlled by the driver, and he can remove at will all the earth possible for the team to haul, taking it from hills or uneven places and putting it into hollows to level up the field.

Made in two sizes—One-horse, 6 feet; two-horse, 8 feet.

The Most Perfect Grader on Earth.

Send for our circulars of Cultivators and other tools for nurserymen.

LABOR SAVERS AND MONEY MAKERS.

**E. G. MENDENHALL, General Agent,
KINMUNDY, ILL.**

When writing to Advertisers mention The National Nurseryman.

When writing to Advertisers mention The National Nurseryman.

We Will Wait on You if You Send Order at Once

We have Trees and Plants in Surplus, in Good Condition. Can ship on receipt of order.

Strawberry Plants.

Plants packed in the best possible condition in slatted crates guaranteed to reach any part of the United States in first class condition. 500 at thousand rates and five varieties may be selected in making up one thousand.

10,000—Auto,	50,000—Rough Rider,
20,000—Eleanor,	10,000—Rio,
200,000—Gandy,	100,000—Star,
10,000—Gladstone,	100,000—Sharpless,
4,000—Johnson's Early,	2,000—Saunders,
100,000—Louis Huboch,	1,000—Smith,
20,000—Kansas,	200,000—Tennessee,
30,000—Mitchell's Early,	5,000—Tubbs,
60,000—Ocean City,	4,000—Yant,
10,000—Parsons,	

Asparagus.

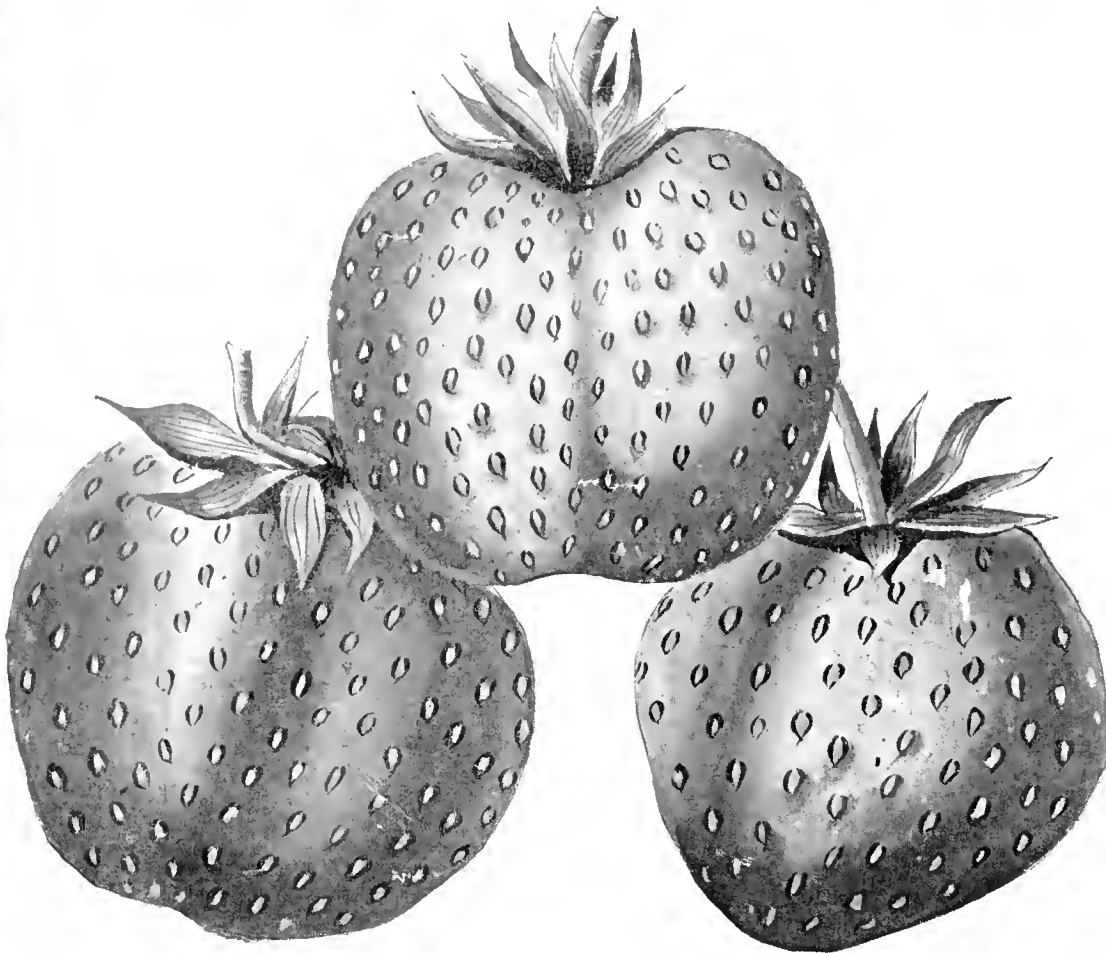
TWO AND THREE YEAR.

5,000—Donald's Elmira,	5,000—Barr's Mammoth,
5,000—Palmetto,	5,000—Conover's Colossal,

Grape Vines

TWO YEAR.

2,000—Concord,	200—Champion,
3,000—Moore's Early,	3,000—Wyoming,
3,000—Agawan,	
1,000—Carolina Poplars,	10 to 12 ft., 2 to 2½ inches,
1,000—	8 to 10 ft., 1 to 1½ "
1,000—California Privet,	18 to 24 inches,
1,000—	12 to 18 "
500—Miller Red Raspberry Plants,	
3,000—Lucretia Dewberry Plants,	



APPLE, Ready for Immediate Shipment.

6 to 7 ft.	5 to 6 ft.	4 to 6 ft.	3½ to 5 ft.	3 to 4 ft.	2 to 3 ft.	6 to 7 ft.	5 to 6 ft.	4 to 6 ft.	3½ to 5 ft.	3 to 4 ft.	2 to 3 ft.	6 to 7 ft.	5 to 6 ft.	4 to 6 ft.	3½ to 5 ft.	3 to 4 ft.	2 to 3 ft.
Autumn Strawberry,		100		25		Maiden's Blush,	20					Tofman Sweet,	600	600	600	600	
Alexander,		50		50		Mammoth Black Twig,					25	Willow Twig,				25	
Ben Davis,	2,000	5,000	6,000	2,000		McIntosh,					125	Wine Sap,		225	100	100	
Cooper's Market,				25		N. W. Greening,	100	200	100	200		Wealthy,	150			150	50
Dutchess,				100	200	Red Astrachan,			100	60	200	Wolf River,			40	50	50
Dominie (Winter Rambo),		50		50		Summer Rambo,				800	500	Wagner,					
Grimes' Golden,		200		100	100	Rome Beauty,				50	200	Walbridge,	40			100	25
Gano,	200		200	200	200	Red Romanite,				50		W. W. Pearmain,					
Lawver,				65		Stayman's Wine Sap,		25		100	100	Yellow Transparent,					200
Lankford Seedling,					25	Scott's Winter,	60			200		CRABS					
						Salome,		00	200	200		Martha,	25	100	25	75	
						Stark,		75	200	100		Transcendent,					

PEACH TREES.

5 to 7 ft.	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.	5 to 7 ft.	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.	5 to 7 ft.	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.
Amsden June,		50			Edgemont Beauty,	100				Mamie Ross,	900	100	400	
Arkansas Traveler,		175			Everbearing,	25	50	25		Mrs. Bret,				110
Allen,	100	75	100		Early Toledo,	125	125	100		Mary's Choice,				50
Alexander,		150			Early Davidson,	10	10	100	75	Old Mixon Free,				350
Bokara,		75	100		Eureka,			50	50	Oscar,		200	50	400
Bronson,		125	50		Early Michigan,			75		Piequet's Late,		75	100	50
Beauty Blush,			100		Foster,	125		50		Reeve's Favorite,	300	150	100	200
Buston's Oct.,		50	50		*Frances,			100		Salway,			100	25
Bequet Free,			125	100	Gold Drop,			100	100	Scott's Nonpareil,		25	25	100
Barnard's Early,	125		50		Gold Mine,		50	175	50	Steadley,				100
Conklin,			250	75	Globe,				500	Slappey,				50
Coolidge Favorite,				50	Garfield,				50	Snow's Orange,		50		100
Crawford's Early,		20	25		Haines' Surprise,		25	25		Smock Cling,	50	50	50	25
Crawford's Late,				150	Heard's Beauty,			100	150	Schumaker,				100
Cobler,		10	75		Hughes,		50	100		Switzerland,				100
Christiana,				50	Hobson's Choice,		50	100	50	Tillotson,		400	100	50
Connett's Early,	50			50	Holderbaum,			100	50	Waterloo,				200
Carman,	300				Jennie Worthien,		175	75		Wheatland,			700	200
Dover,				75	Jacque's R. R.,	20		75		Wonderful,	110			
Denton,				50	Levy's Late,		50	150	50	Wager,				50
Early Heath,				150	Lewis,		10			Wheeler's Late,			150	50
*Elberta,	125		50	900	Marshall,			100	50	W. Heath Cling,			50	
Early Rivers,	500				Miss Lolo,	25	100		50	Yellow St. John,	100	100	1,500	800
Engles' Mammoth,	45				Magnum Bonum,		100		100	Yellow R. R.,			10	150

GENERAL LIST OF PEAR.

5 to 7 ft.	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.	5 to 7 ft.	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.	5 to 7 ft.	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.
Bartlett,		150			Lincoln Coreless,					Sheldon,	100	198	248	
Belle Lucrative,	198	351	251		LeConte,	300				Tyson,	98	198	48	
Clapp's Favorite,	300	1,998	1,000		Krull,		50	151	598	Vermont Beauty,			35	
Flemish Beauty,	300	698	398		Lawson,	48	50	26	50	Vicar,	148	198	148	
Garber,		281	500	600	Koonce,					Wilder,	148	248	148	
Howell,	50	100	50		Beurre d'Anjou,	498	498	500		Lawrence,			30	
Hoosac,	49	98	50		Seckle,		100							

J. G. HARRISON & SONS, BERLIN, M D.

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June, 1904

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

SURPLUS, SPRING 1904

150,000 California Privet, fine plants.
25,000 Peach, first-class, 6 to 8 ft.
15,000 Cherry, 3 to 4 ft and 2 to 3 ft.
10,000 Japan Plums, (fine) $\frac{3}{4}$ up and $\frac{5}{8}$ to $\frac{3}{4}$, 6 to 8 ft.
6,000 Shropshire Damson, $\frac{1}{2}$ to $\frac{5}{8}$, and $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 7 ft.
4,000 Carolina Poplar, 2 year, 10 to 14 ft.
2,000 Sugar Maple, $1\frac{1}{2}$ to 2 in., 10 to 12 ft.
1,000 American Elm, $1\frac{1}{2}$ to 2 in. 12 to 14 ft.
600 American Linden, $1\frac{1}{2}$ to 2 in., 12 to 15 ft.
200 Bushels small Peach Pits, crop 1903, at cost.

WANTED—Apple and Pear Trees, Apple Seed, Apple Seedlings and Ornamental Seedlings.

SURPLUS

Apple Trees

Root Grafts

Forest Seedlings

A full line of SHADE and ORNAMENTAL TREES and SHRUBS.

—WRITE FOR PRICES.—

YOUNGERS & CO., Geneva, Neb

Specialties for Fall

CHERRIES. PLUMS. MULBERRIES.
WALNUTS—ENGLISH AND JAPAN. PECANS.
EXOCHORDA. LILACS. LONICERAS.
HYDRANGEAS—Field Grown, Strong.
THOS. HOGG, ROSEA, ETC.
CAMELLIAS, AZALEAS, GARDENIAS, MAGNOLIAS.
HEDGE PLANTS:
AMOR RIVER AND CALIFORNIA PRIVET IN
LARGE QUANTITIES.
CITRUS TRIFOLIATA. BERBERIS THUNBERGII.
SPIROEA THUNBERGII.
BIOTA AUREA NANA. CEDRUS DEODARA.
LIBOCEDRUS DECURRENS.
JUNIPERS. RETINOSPORAS.
ORANGES, LEMONS AND OTHER CITRUS FRUITS.
300,000 PALMS.
KENTIAS, LATANIAS, PHOENIX.
FIELD GROWN ROSES—Own Roots and Budded.
NO SCALE and Everything Healthy and Well Grown.

P. J. BERCKMANS COMPANY, Inc.

FRUITLAND NURSERIES, AUGUSTA, GA.

Est. 1856

Over 450 Acres in Nursery

WABASH R. R.

OFFERS UNEXCELLED SERVICE
TO THE

●●●●● **WEST** ●●●●●

FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

●———TO ST. LOUIS, KANSAS
CITY AND OMAHA.

FREE RECLINING CHAIR CARS.

PULLMAN SLEEPING CARS.

WABASH DINING CARS.

Full information regarding
rates, etc., cheerfully given.

ADDRESS,

C. S. CRANE, G. P. & T. A.,

St. Louis, Mo.

JAMES GARR, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLEY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

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THE Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.
ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.
RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.
PÆONIAS—Large Assortment, Named Varieties.
DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES. RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to Advertisers mention The National Nurseryman

AT DAVISVILLE, CAL.

DAVISVILLE, Cal., May 10—G. W. Sanders: "Last season's business was fairly successful with me; I had about eighty thousand trees and disposed of them all except a few cling peaches. From my standpoint the outlook for the future is very bright and my stock, all but a few, looks very fine."

"The high water and floods of the later part of the season went over my nursery and did some damage by leaving sediment, but did not hurt but very few of the trees and I will have about one hundred thousand trees to offer to the trade this coming season."

THE BEST IS
WORTH THE
DIFFERENCE.

See our
Thomas B. Meehan
at the Convention.
Badge No. 15.



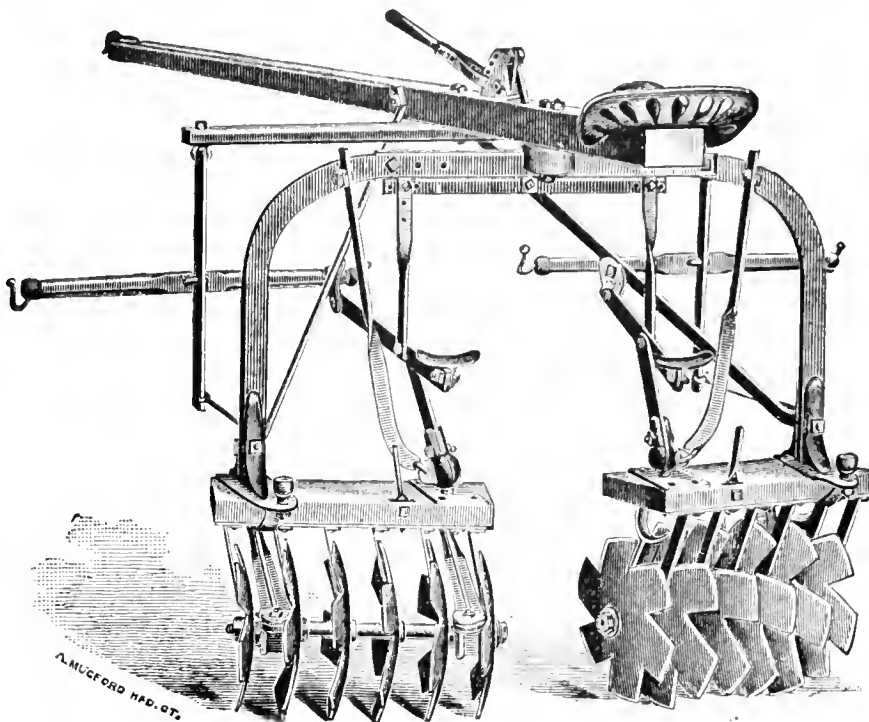
THOMAS MEEHAN & SONS, Inc. Dreshertown, Penna.

Nursery Street

THE "NATIONAL NURSERYMAN" AT ATLANTA.

The NATIONAL NURSERYMAN will be represented at the Atlanta convention by the president of the company, Thomas B. Meehan, Badge No. 7; the secretary and business manager, C. L. Yates, Badge No. 22, and the vice-president and editor, Ralph T. Oleott, Badge No. 23.

For Nurserymen ^{WE HAVE IT IN THE} Four "C" Cultivator



Entirely new principles in cultivating nursery stock, corn or cotton—Clark's Cutaway Cultivator. It has two gangs, each having five Cutaway discs. This cut was made from first machine, when we used six spading discs. We now use only five of our regular Cutaway discs. They cut two feet on each side and will thoroughly pulverize and cultivate the soil. It is reversible—cultivating either towards or away from the plant. By a single motion of the foot each gang can be guided, as desired—and at all times it is under perfect control, so that crooked rows may be readily cultivated. Can cultivate all sizes of nursery stock, from one inch up to several feet. For farm use in corn cultivation it is also a perfect machine. Circulars and prices promptly mailed of this and other special tools to prepare ground for planting out.

E. G. MENDENHALL, KINMUNDY, ILL.
GENERAL AGENT.



CHASE'S NEW HAMPSHIRE MAID

WOOD LABELS

For Nurserymen and Florists.

BENJAMIN CHASE, - DERRY, N. H.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKMAN, SOLE AGENT.

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

When writing to Advertisers mention "The National Nurseryman."

Pioneer Nurseries Company,

— Salt Lake City, Utah, —

OFFER FOR FALL SHIPMENT:

Apple	Peach
Pear	Prune
Plum	Cherry

IN CARLOAD LOTS. Special Prices On Early Orders

 We Equalize Freight Rates; REMEMBER THAT!

THE WILLADEAN NURSERIES

Offer in surplus for SPRING 1904, all kinds of first class Nursery Stock

SPECIAL LOW PRICES

will be quoted on Apples, Plums, Cherry and Asparagus, Sweet Gum, Tulip, Silver Maples, Am. Elm, Scotch Elm, Oaks in variety, Magnolia Accuminata, Ash in variety, Catalpas, Cypress, Yellow Wood, Red Bud, Am. Sycamore, Paulownia and others. All sizes from 4 to 15 feet. Spirea Van Houtti, Hydrangeas, Weigelas, Lilacs, Berberry, Deutzias, Cut Leaf Elder, Purple Fringe, Syringas, Snowberry and many other Shrubs. Seedlings such as Catalpas, Mulberrys, Oaks, Maples, Sweet Gum, Ailanthus, Hackberry, Red Bud, Calycanthus, Snowballs, Hydrangeas, and others, Paeonias, Perennials, etc. Send your list of wants for special prices. Correspondence solicited.

The Donaldson Co.

Successors to DONALDSON & GIBSON

WARSAW, KY.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

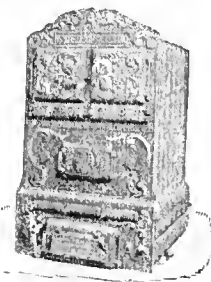
C. C. ABEL & CO., P. O. Box 920 New York

GULF GYPRESS

Greenhouse Material

CUT AND SPLICED READY FOR ERECTION

Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus



GLASS at Wholesale

Try our Seal Tight Liquid Putty
Sample Gallon, 75 cents

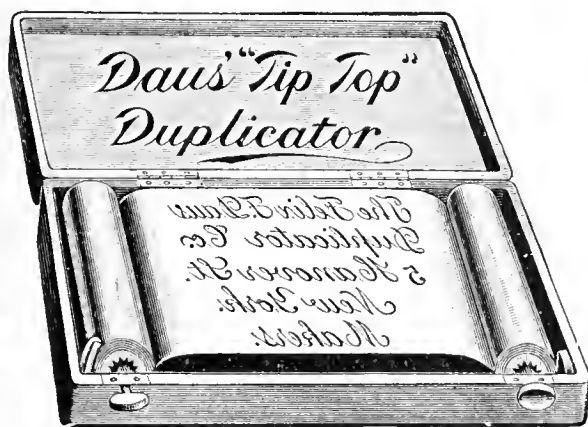
S. JACOBS & SONS

MANUFACTURERS

1365 to 1373 Flushing Avenue
BROOKLYN, N. Y.

We furnish everything for building.
Send for prices and catalogue

WANTED at once, a nurseryman experienced in propagation of general fruit nursery stock. One who understands the setting out, budding, grafting, etc. of Seedlings, etc. Address, C. P. F., 444 Prudential Bldg., Buffalo, N. Y.



WHAT IS "TIP-TOP"? ... DAUS' TO PROVE

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making 100 copies from Pen-written and 50 copies from Type-written original we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial.

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WOOD LABELS OF EVERY DESCRIPTION

For Nurserymen and Florists

DAYTON FRUIT TREE LABEL Co.

South Canal Street, Dayton, Ohio

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W. C. REED, VINCENNES, IND.

We offer for Fall of 1904 the following in Car Lots:
Apple 2 and 3 year. Pear Std. and Dwf. Cherry 1 and 2 year. Plum 1 and 2 year; Japan and European. Peach 1 year. Soft Maple, Elm, Box Alder, Ash and Wiers Cut Leaf Maple.

Also Nice Stock of Roses, Shrubs and Small Fruits.
Personal inspection invited.

Black Locust Mulberry.

Honey, Locust, Ash, Box Elder, Maple, Catalpa and Elm Seedlings. Asparagus, Rhubarb, Strawberries.

APPLE AND PEAR Seedlings in good supply.

J. A. GAGE, Beatrice, Neb.

WARD BLACKBERRY.

THE NEW JERSEY WONDER. Will grow Ward Blackberry Root Cutting Plants on contract for Nurserymen and dealers for fall delivery, 1904. Write for prices. State quantity wanted.

D. BAIRD & SON, Baird, N. J.

The Fraser Nursery

JOHN FRASER, PROP.

HUNTSVILLE, ALA.

I will commence June Budding the end of May. I offer to grow special orders of June Buds of PLUM AND PEACH for next fall delivery. I have a complete assortment of varieties true to name.

I ALSO OFFER FOR FALL,

STANDARD PEAR, one and two years. CHERRY, one and two years; PECANS, one and two years; MULBERRYS, one year, large grades; MAGNOLIA GRANDIFLORA, three years; CALIFORNIA PRIVET, one year; MANETTI, MULTIFLORA and MARIANA STOCKS, DWARF BOX, H. P. MOSS, PLANTIER, NEIL and PRAIRIE ROSES.

WRITE FOR PRICES.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,
Proprietor of Beacon Building,
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W. M. PETERS SONS

R. F. D. SNOW HILL, MD.

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

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ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

1,000 ACRES

A General Assortment for Fall 1903 and Spring 1904.

HEAVY STOCK

Peach, Apple, Asparagus, California Privet, 1 and 2 yr.

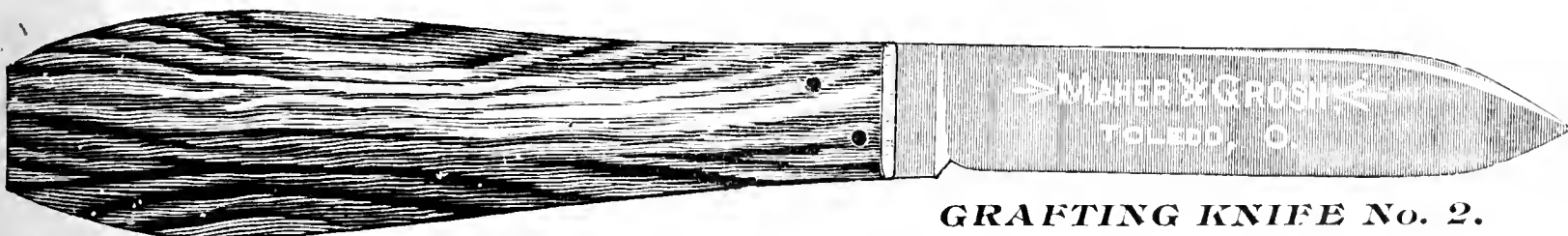
PECANS, ORNAMENTALS, ETC. SEND US YOUR WANT LIST FOR PRICES.

FRANKLIN DAVIS NURSERY CO.,

BALTIMORE, MD.

We want Standard and Dwarf Pears, Quince, 2 yr.; Cherry, Grape, Currants and Gooseberries.

Send us your surplus list and prices.



GRAFTING KNIFE No. 2.


Cut is exact size of our Grafting Knife No. 2. Sample, by mail, 20 cents. 6 for \$1.00.
No. 1 has a "sheep foot" blade and is larger. Sample, by mail, 25 cents. 5 for \$1.00.
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Hand forged. Razor steel. Warranted. Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and sent free to all who ask for one.



TREE BOX LUMBER

Why Not Buy your Lumber for Boxing Sized, cut to
Lengths You Use and all Ready to Nail Together?
It Costs but Little More than the Common Lumber you
buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS **GOODWILLIE BROTHERS**
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Established 1889.

320 ACRES

THE FRESNO NURSERIES

F. H. WILSON, Proprietor.

LARGEST STOCK OF

Fruit Trees and Grape Vines

WEST OF THE ROCKY MOUNTAINS.

Location of Nurseries. DINUBA, CALIFORNIA.

320 ACRES VIRGIN SOIL

MAIN OFFICE FRESNO, CALIFORNIA.

CATALOGUE
AND PRICE
LIST FREE.

The Woodburn Nurseries

(Established 1863 by J. H. SETTLEMIER)

Will have for Fall shipment a very complete
line of

**Fruit and Ornamental Trees,
Evergreens, Shrubs, Roses,
Small Fruits,
Hedge Plants, etc.**

We give special attention to dealers and
would like to figure with you.

225 ACRES.

J. H. Settlemier & Son
WOODBURN, OREGON

Peters & Skinner

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Capital Nurseries

NORTH TOPEKA, KANSAS

HAVE TO OFFER

Apple Seedling Pear Seedling

Apple, Peach and Cherry Trees

Keiffer Pear

Bechtel's Double Flowering Crab

Grape Vines Flowering Shrubs

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VINCENT LEBRETON, La Pyramide, Angers, France

Wholesale Growers and Exporters of French Fruit and Ornamental Seedlings, Manetti, Multiflora, etc

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Extensive Nurseries of Large Evergreens, Conifers, Transplanted Flowering Shrubs, Apple Stocks, Norway Maples, etc

SCHAUN & VAN TOL, Boskoop, Holland

Wholesale Growers of Dwarf and Standard Roses, Peonies, Clematis, Evergreens, Hardy Azaleas and general Boskoop Nursery Stock

ENGLISH NURSERY STOCK

Manetta Stocks, Gooseberries, Hardy Rhodendrons, Norway, Maples, etc

JAPANESE NURSERY STOCK.

Japanese Maples, Seiadopitys, Iris, Ilex Crenata, etc

RAFFIA RED STAR BRAND

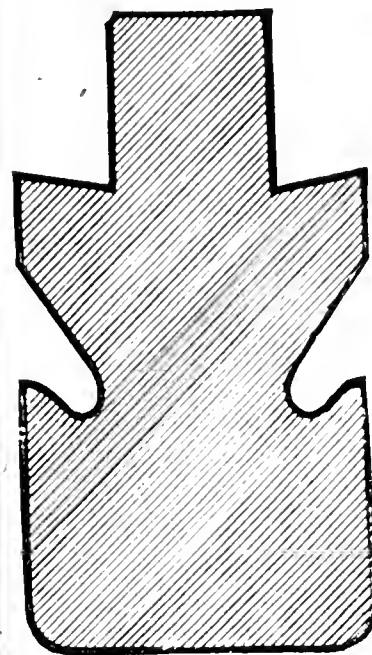
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Write for Prices. Send for Catalogue of above firms

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Custom House Brokers and Forwarders



Improve Your Opportunity NOW

And write for our circular of air dried red Gulf



**CYPRESS GREEN-
HOUSE MATERIAL.**

Ice clearing iron eave plate, iron purlins, cast iron gutters, as well as all other kinds of building material entering into a modern greenhouse.

We furnish material of superior quality and finish.

Construction Catalogue and Heating and Ventilating Catalogue mailed from New York Office, for ten cents postage, five cents each.

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1851

1904

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We offer for Fall of 1904 a large number of our well known ONE YEAR CHERRY, two year Cherry, Peach, Apple and a general line. Also have a lot of Fine Norway Spruce 2-3 ft. Will make Special Inducements for early orders of Cherry and Peach. Personal inspection invited. Correspondence solicited.

H. M. SIMPSON & SONS,

VINCENNES, IND.

I Was in it Last Year--The Great May Flood

I Am in it This Year--The Seedling Trade.

Come and See Me.

Write for Prices on both

Apple and Japan Pear Seedling

I have a large stock of both French and American Apple Seedlings to offer the trade.

I also offer for the Fall of 1904 and Spring of 1905 a fine lot of . .

1 and 2 Year Apple

Won't You Kindly Divide Your Orders with me. It will do us Both Good

A. L. BROOKE, PROP.,

North Topeka Nurseries

North Topeka and - - Grantville, Kansas

Chico Nursery Company

(INCORPORATED)

Largest Growers on the Pacific Coast of

Grape Vines

Peach Trees

Carolina Poplars

Walnuts

Our YEARLING GRAPE VINES are equal in size to two year olds, grown in Eastern or more Northern Sections.

PEACH TREES grown in a section where BORERS are UNKNOWN.

Large stock of Fruit and Ornamentals

SHASTA DAISIES

ROSES

Free from Disease.

CHICO NURSERY CO.

CHICO, CALIFORNIA

The Milton Nurseries

ESTABLISHED IN 1878.

Over twenty-five years in business.

Our Nurseries are located in what is known as "The Garden Spot" of the Walla Walla Valley, just in the edge of the beautiful little city of Milton, Umatilla Co., Oregon, and one-fourth mile east of the depot, on the main line of the O. R. & N. railroad between Pendleton and Spokane.

We carry a full and complete stock of Fruit, Shade and Ornamental Trees, Small Fruits, Hardy Flowering Shrubs and Roses.

We have a surplus of 1 and 2 yr. Apples, 1 yr. Cherries and 2 yr. Roses to offer to the trade this Fall.

A. Miller & Sons
Milton, Oregon.

Homes in the South

There are in the Southern States awaiting development, thousands of acres of uncultivated farm lands in tracts of all sizes, which can be purchased very cheaply. They are productive, healthy, and close to good markets. In ten States reached by the lines of the

Southern Railway

For information about opportunities now available, prices of land, character of soils, etc., write to

M. V. RICHARDS
Land and Industrial Agent
Washington, D. C., Southern R'y

The "OLD RELIABLE"

Albany Nurseries

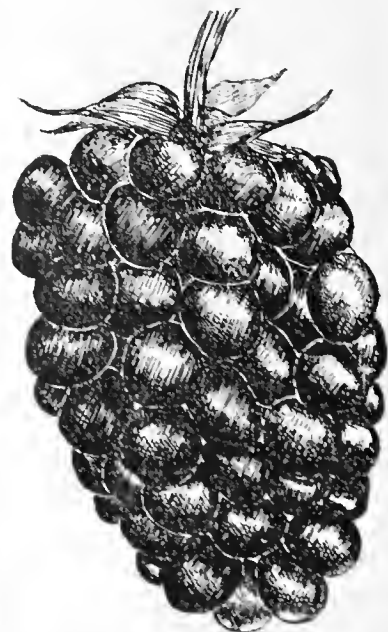
Offer a large stock of the
Wonderful New Blackberry

HIMALAYA GIANT

For delivery Fall of 1904. Even when grown without water this Berry is sweet, melting and delicious, with no core.

Also a full line of General Nursery Stock at usual rates.

ALBERT BROWNELL
ALBANY, OREGON



STRAWBERRY and RASPBERRY plans of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

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16 GOLDEN MEDALS.

52 SILVER MEDALS.



SHIPMENTS TO ALL
COUNTRIES.



PAUL HAUBER,
Nurseryman,

TRAINED FRUIT TREES A SPECIALTY.

TOLKEWITZ - DRESDEN, GERMANY.

Branch Nursery for Evergreens,
Schweizermühle, Königstein.

Correct trained fruit trees in all shapes and in the best kinds fit for this country.

Standard Apple, Pear, Cherry, Plum, Peach and Apricot Trees.



Standard Gooseberries and Currants
(3-4 feet high.)

Rose Bushes as well as Standard Roses.
Strawberries and Evergreens.



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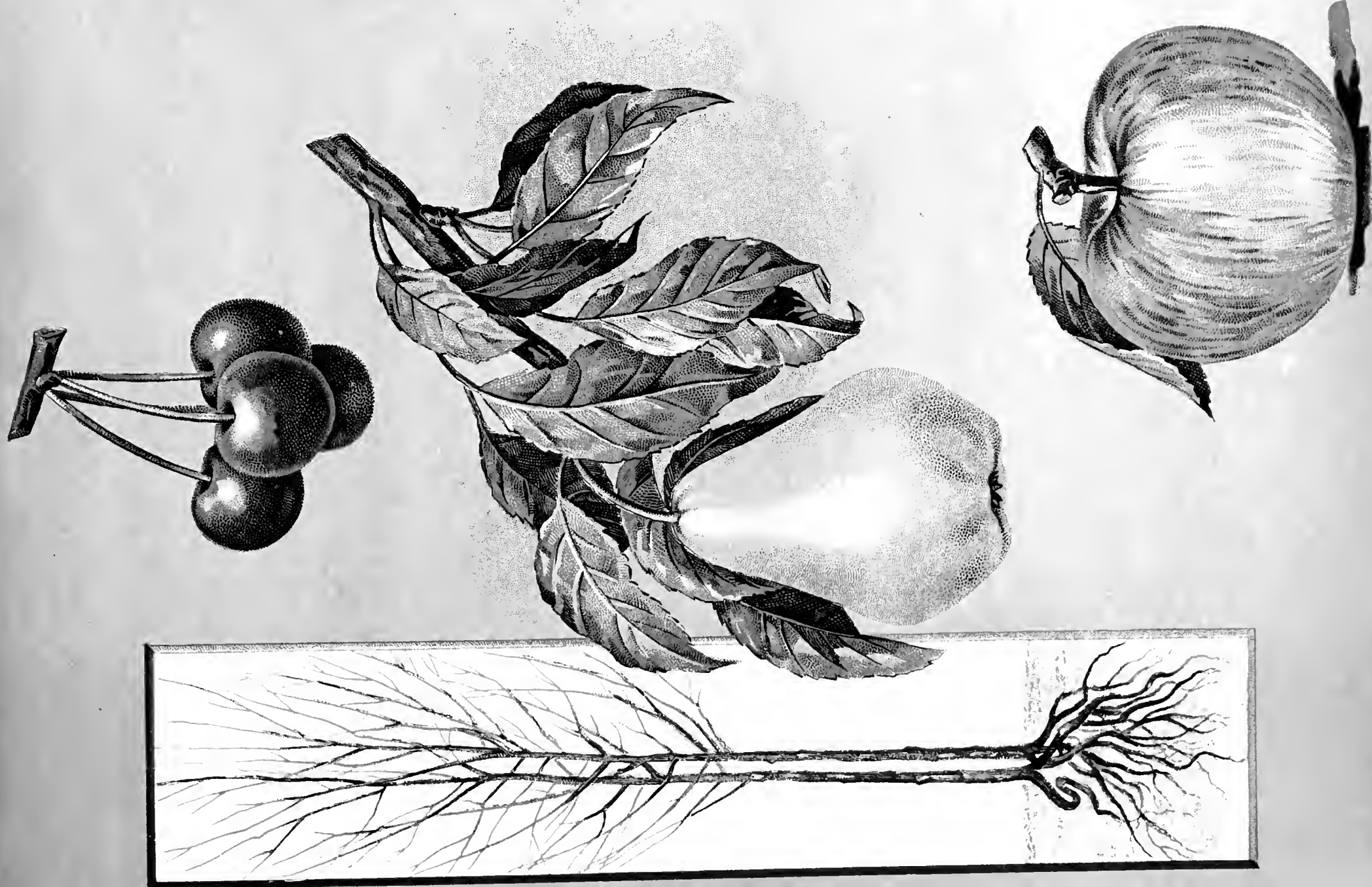


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New Illustrated Descriptive Catalogue

JUST ISSUED AND CARRIED IN STOCK
FOR CONVENIENCE OF NURSEYMEN.

PRICE \$8.00 PER 100.
SEND 15 CENTS FOR SAMPLE COPY.

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176 NORTH WATER STREET,

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Have You Seen Our New Condensed Plate Book ?

POCKET SIZE, yet containing illustrations of **MANY VARIETIES**
Indispensable and Economical.

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CAPITAL STOCK, \$1,000,000.00.

GENERAL OFFICES, Nurseries, Packing Houses, LOUISIANA, MO.
Branches Starkdale, Mo.; Fayetteville, Ark.; Atlantic, Iowa;
Dansville, N.Y.; Portland, N. Y.

The Oldest Nurseries
in the West.



The Largest Nurseries
in the World.

Particular attention called to
APPLE SEEDLINGS
GRAPE VINES, all leading varieties
CURRANTS
GOOSEBERRIES
BUDDED LILACS, finest new sorts
BECHTEL DOUBLE-FLOWERED CRAB, etc.

We make a specialty of Carload Lots of Apple,
Peach, Plum, Cherry, Standard and Dwarf
Pear, Grape, etc., for the trade. Our immense
storage capacity and unexcelled R. R. facilities
enable prompt shipment at any time during
the season. Freight rates from Louisiana,
Mo., are very low, being on St. Louis basis.

August Rölker & Sons

Established 1835.

31 Barclay Street,
P. O. Box 752.

NEW YORK.

FRUIT STOCKS, Evergreen and Deciduous Ornamentals, Manetti, Multiflora Roses, and other French Nursery Stocks, grown by **Elmire Sebire, Fils Aine, Ussy, (Calvados) France**

HOLLAND GROWN Hardy Azaleas, Rhododendrons, Tree and Dwarf Budded Roses, Boxwood, Lilac, Shrubs; Specimen Evergreen and Ornamental Trees, etc.

SEEDS French Crab Apple, Pear, Mahaleb, Myrobalan, Japan Pear seed, etc.

RAFFIA FIBRE IN BEST GRADE
Always in Stock.

ALL IMPORTATIONS MADE THROUGH US WILL
RECEIVE PROMPT AND CAREFUL
ATTENTION, AT COST RATES.

Preliminary List of Fruit Stocks, Ornamentals, etc.,
now ready. Write for same.

BOX STRAPS

LIGHT SHEET STEEL STRAPS.

Averaging about an inch in width. Any lengths up to 63 inches.

The best and cheapest material on the market for the purpose. Soft, tough, strong and easily applied. A wire nail can be driven through without previous punching. Write for Price List.

References, - - - - - **GEORGE PETERS & Co., Troy, Ohio**

WARD-DICKEY STEEL COMPANY,

Manufacturers of Planished Sheet Steel.

Indiana Harbor, Ind.

POTS! POTS! POTS!

We are manufacturers of **Standard Flower Pots** equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY, 213-23 Pearl Street
NORRISTOWN, PA.

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS** ❀ ❀ ❀ ❀

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON, CHATENAY SEINE,
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GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

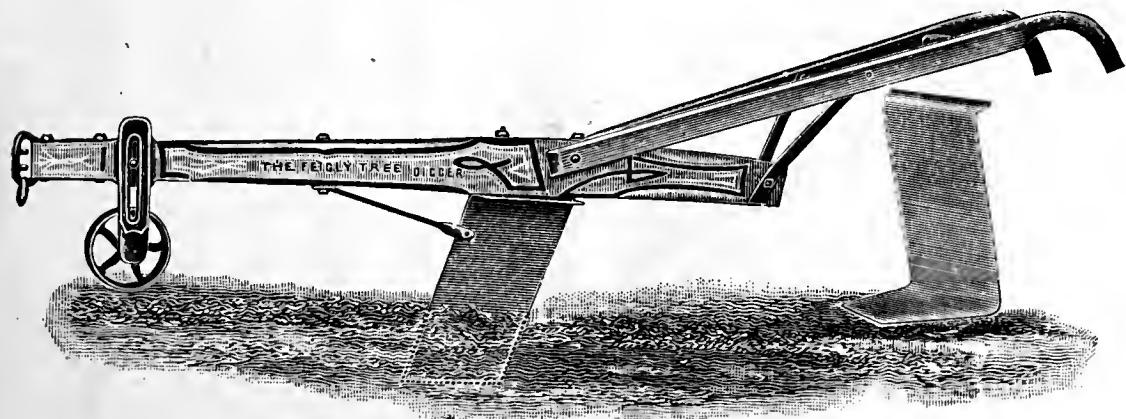
PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

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THE ONLY JOURNAL FOR THE NURSERYMAN. AN UNEXCELLED ADVERTISING
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A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

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Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1904, AND SPRING, 1905

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

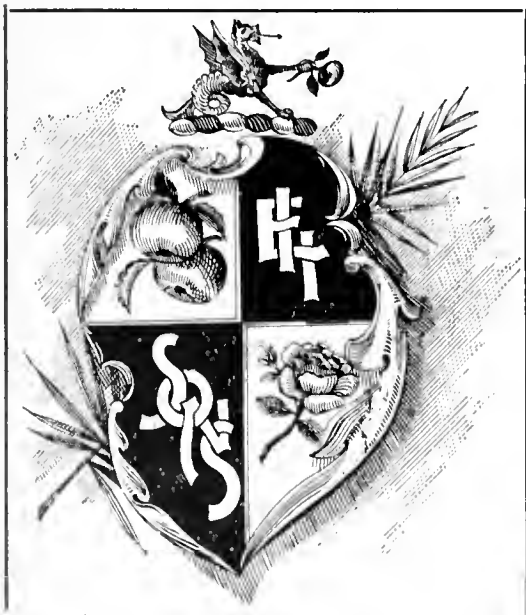
All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

I. E. Ilgenfritz' Sons



THE
MONROE
NURSERY

MONROE, MICH.

OFFERING FOR SEASON 1902-1903

Choice Stock

Apple, Standard Dwarf Pear

GOOSEBERRIES, CURRANTS, AMERICAN ELM, MAPLES,
CATALPAS, AND A GENERAL LINE OF NURSERY STOCK

Correspondence Solicited.

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F. N. Stannard & Co.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery
Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseber-
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and Shrubs

Dreer Specialties in Hardy Plants

Hardy and Tender Water Lilies and Nelumbiums. Most extensive
collection, including all the standard varieties as well as a complete
assortment of American and French novelties.

Hardy Perennial Plants

Most extensive collection in America.

Japanese Anemones, Aquilegias, Hardy Asters, Campanulas, Hardy
Chrysanthemums, Delphiniums, Helianthus, Hemerocalis, Double
Hollyhocks, Iris, Paeonias, Phlox, Pinks, Poppies, Primroses, Stokesia,
Rudbeckias, Tritoma Pfitzeri, etc.

Hardy Vines

Ampelopsis, Akebia, Aristolochia, Clematis, Ivies, Wisterias, etc.

Roses

A most complete list of Hybrid Perpetual and Everblooming
varieties. Our Roses have been all potted during the winter, stored
in cold houses, consequently can be shipped until late in the season.

The New Blue Conifer, *Retinispora Sanderi*

A most important addition to the list of Evergreens

Rhododendrons, Hardy Azaleas, Hydrangea Paniculata Grandiflora.

For a complete list of Hardy Plants as well as for a full line of
Decorative Florists' Stock such as Palms, Ferns, Rubber Plants,
Pandanus, Summer Flowering Bulb, etc., see our Quarterly Wholesale
List which is mailed free to the trade on application.

HENRY A. DREER, Philadelphia, Pa.

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Oregon Nursery Co., Ltd.

WE MAKE A SPECIALTY OF GROWING

Rambler and other Climbing Roses

ON OWN ROOTS

Cut Leaved Weeping Birch and Carolina Poplar

FOR THE WHOLESALE TRADE

Cut Leaved Birch, 2 yrs , 6 to 8 ft., as straight as an arrow, nicely branched, their equal cannot be grown any place else in the United States.

Our soil and climate is the finest in the world for producing these special kinds.

Contracts made now for Rambler Roses, Carolina Poplars for delivery Fall 1905 and Spring of 1906. Cut Leaved Weeping Birch, delivery Fall 1906 and Spring 1907.

Special Inducements to parties contracting in car-load lots.

See our MR. McDONALD at the Atlanta Convention.

Oregon Nursery Co., Ltd.

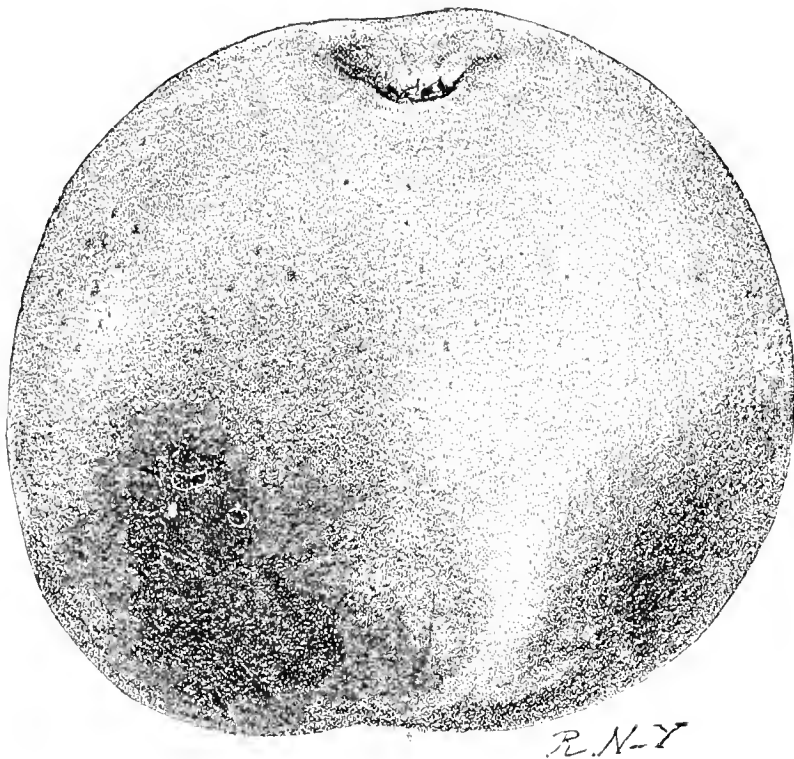
SALEM, OREGON.

Buds! Buds! Buds!

PEACH BUDS

FOLLOWING VARIETIES:

Alexander	Amsden June
Ark. Traveller	Ark. Beauty
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Bernards Early	Beauty B.
Bequett Free	Brandywine
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Barber	Burke
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Crawford Late	Carman
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Crawford Early	Delaware
Denton	Dover
Elberta	Engle's Mammoth
Edgemont	Early Michigan
Everbearing	
Eureka	
Easton Cling	
Early Davidson	
Early Toledo	
Early Heath	
Foster	
Fitzgerald	
Francis	
Frederica	
Fox Seedling	
Ford's Late White	
Frederic Free	
Globe	
Garfield	
Gold Mine	
Gordan	
Greary's Holdon	
Gold Drop	
Hughes	
Heard's Beauty	
Haines Surprise	
Hale's Early	
Holland' Cling	
Holderbaum	
Heidelberg	
Hobson's Choice	
Jennie Worthien	
Jacques R. R.	
Kalamazoo	
Klondike	Lewis
Lodge	Leon Cling
Levy's Late	L. Early York
Matthews Beauty	
Magnum Bonum	
Mrs. Brett	Marshall
Miss Lolo	Mary's Choice
New Prolific	Niagara
Newington Cling	Oscar
Pearce's Yellow	
Phillips Hortons	
Red June	Reeves Favorite
Ray	
Red Check Melocoton	
Salway	
Smock Cling	
Schumaker	
Shipley's L. Red	
Sunrise Cling	
Stendley	
Scott's Nonpareil	
Switzerland	
Troth's Early	
Van Meteor L. O.	
Victor	Wonderful
W. F. Allen	
William's Favorite	Weaver
Waterloo	Wheeler's Late
Walker's V. Free	
Ward's Late	
Willett	
Wager	
Willin's Cling	
W. H. Cling	
Yellow Oct.	
Yellow Ripe	



ALSO PEAR, PLUMS and CHERRY BUDS.

GENERAL LIST OF VARIETIES.

HAVE FINE STOCK OF

Peach, Apple and Kieffer Pear ALL SIZES and GRADES.

WILL QUOTE PRICE ON APPLICATION.

WILL BE REPRESENTED AT CONVENTION BY ORLANDO

HARRISON, WHO WILL BE GLAD TO MEET YOU.

J. G. HARRISON & SONS,

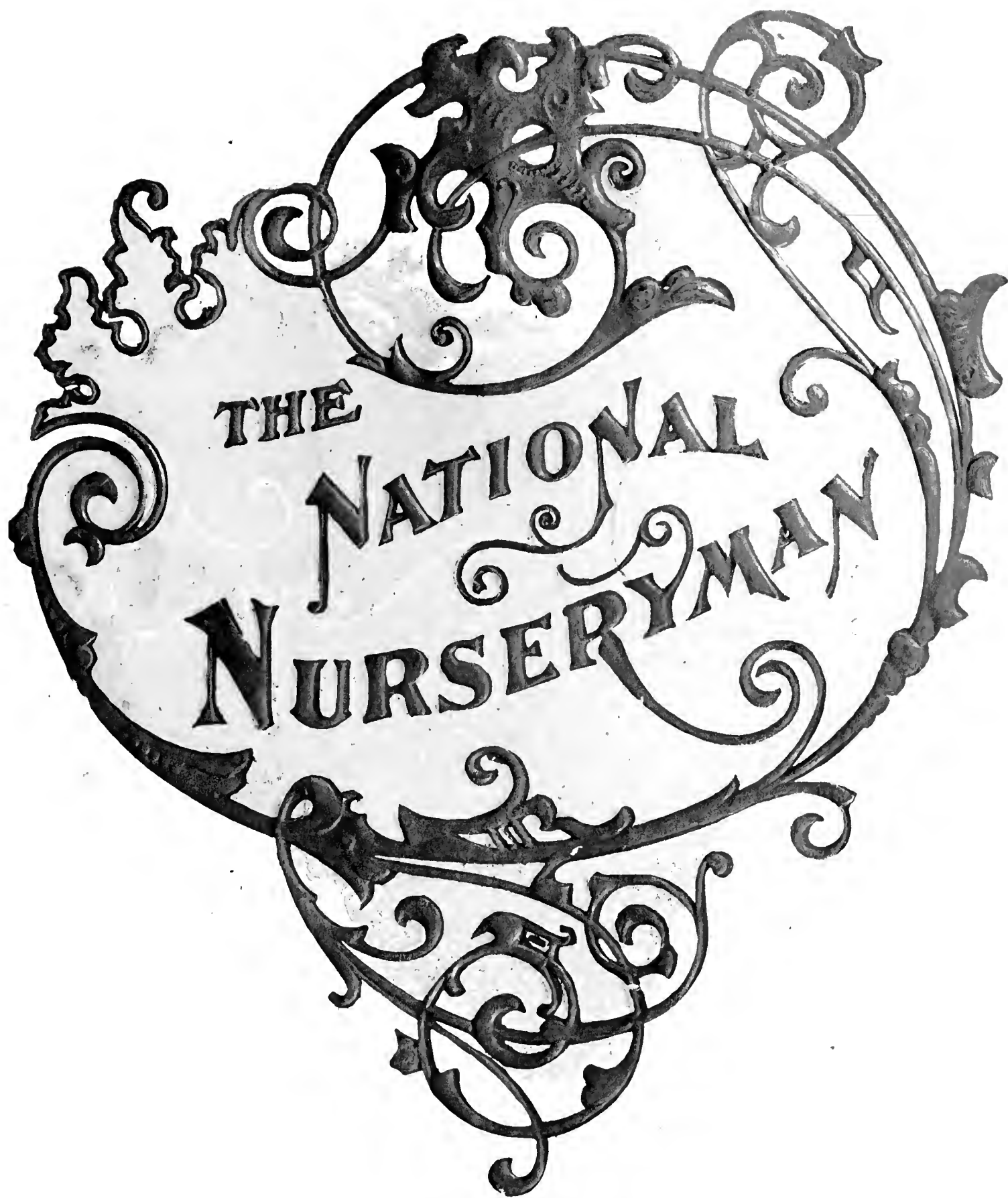
Berlin, Md.

APPLE BUDS

FOLLOWING VARIETIES:

Arkansas Black	Alexander
American Blush	
Amer. Golden Russett	
Albermarle Pippin	
Baldwin	Ben Davis
Black Ben Davis	
Bell de Boscoop	
Belmont	Bailey's Sweet
Boken	Benona
Cole	Coffelet
Clark's Orange	Chase's Jelly
Cart House	Duchess
Dominine	Detroit Red
Delicious	
Early Pennock	
Esopus Spitzenburg	
Early Colton	
Early Harvest	
Fallwater	Flora Bell
Fourth of July	
Famuese	Fall Pippin
Grimes Golden	
Gano	Gen. Grant
Gravenstein	
Huntsman's Far	
Hubbards Nonsuch	
Haas	Hurlburt
Hyslop	Hubbardston
Iowa Blush	Jonathan
Jersey Sweet	
King	
Kentucky Red Streak	
Kennards Choice	
Legal Tender	
Lowell	Loy
Longfield	Lansingburg
Lawyer	
Lankford Seedlings	
Limber Twig	M. B. Twig
Maiden's Blush	Mo. Pippin
Mc. Intosh Red	
Montreal Beauty	
Milan	Mann
Kinkler	Martha
N. W. Greening	
Newtown Pippin	
Northern Spy	
Nero	Ohio Nonpareil
Porter	Price's Sweet
Pecks Pleasant	
Primate	Plum Cider
Pewaukee	R. I. Greening
Rome Beauty	
Red Astrachan	
Red June	Roman Stem
Rawles Janet	
Rolfe	Romanite
Red Beitingheimer	
Rambo	Stark
Sweet Bough	
Stayman's Winesap	
Springdale	Summer Rambo
Senator	Sutton's Beauty
Salome	Seek-No-Further
Starr	Shackelford
Swarr	
Stewart's Golden	
Stark	Smith Cider
Twenty Ounce Pippin	
Talpeliocken	
Transcendent	
Tallman Sweet	Utters Red
Virginia Beauty	
Vandevere Pippin	Wealthy
W.W. Pearmain	Wolf River
Whitney	Wagner
Winter Rambo	Walbridge
Winter Blush	Wisner
Willow Twig	Winesap
White June	
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Yellow Transparent	
Yellow Bellflower	

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July, 1904

Oregon Nursery Co., Ltd.

WE MAKE A SPECIALTY OF GROWING

Rambler and other Climbing Roses

ON OWN ROOTS

Cut Leaved Weeping Birch and Carolina Poplar

FOR THE WHOLESALE TRADE

Cut Leaved Birch, 2 yrs , 6 to 8 ft., as straight as an arrow, nicely branched, their equal cannot be grown any place else in the United States.

Our soil and climate is the finest in the world for producing these special kinds.

Contracts made now for Rambler Roses, Carolina Poplars for delivery Fall 1905 and Spring of 1906. Cut Leaved Weeping Birch, delivery Fall 1906 and Spring 1907.

Special Inducements to parties contracting in car-load lots.

See our MR. McDONALD at the Atlanta Convention.

Oregon Nursery Co., Ltd.

SALEM, OREGON.



Painesville Nurseries



OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF NURSERY
AND FLORISTS' STOCK IN THE UNITED STATES, INCLUDING

**Fruit and Nut Trees, Deciduous and Ever-
green Trees and Shrubs, Roses, Hardy Vines
and Plants, Small Fruits and Grape Vines,
Tender Plants, Bulbs and Seeds** ♧ ♧ ♧ ♧

SOME FINE STOCK ON WHICH WE CAN QUOTE LOW RATES IN
**Elms, Willows, Poplars, Philadelphus-Deutzias, Tree and Bush Hy-
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An extra fine lot of **Tree Roses** for fall delivery. Hardy, home-grown **Field
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Immense stock of **Grape Vines** and **Small Fruits, Currents, Root-
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Azalias, Palms, Ficus, Araucarias and other Decorative Plants in large
supply. **French, Holland, Japan and Bermuda Bulbs**—direct importations
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Pleased to price your list of wants or to show you our stock. Special inducements
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50 YEARS. 1200 ACRES. 44 GREENHOUSES.

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**Shrubs
Evergreens
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Hardy Plants**

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
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ROSES, Crimson Rambler, Dorothy Perkins, H. P's.

AMPELOPSIS VEITCHII, 2 years and 3 years.

CLEMATIS, Leading large flowering varieties.

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SNOWBALLS, Japan and Common.

CURRENTS, GOOSEBERRIES.

Send us list of your wants for quotations.

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Mail Order Trade

Is desired by almost every progressive nurseryman, and if you are looking for this class of business, an advertisement in "The Fruit Grower," St Joseph, Missouri, will place you in touch with planters

who order by mail every year. On September 1st, 1904, the rate will be advanced and the guaranteed circulation will be

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Write at once for copy of our new illustrated booklet, "The Evolution of an Idea," which gives information in detail regarding the best fruit paper in America.

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Specialties for Fall

CHERRIES. PLUMS. MULBERRIES.
WALNUTS—ENGLISH AND JAPAN. PECANS.

EXOCHORDA. LILACS. LONICERAS.

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AMOR RIVER AND CALIFORNIA PRIVET IN
LARGE QUANTITIES.

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ORANGES, LEMONS AND OTHER CITRUS FRUITS.

300,000 PALMS.

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FIELD GROWN ROSES—Own Roots and Budded.

NO SCALE and Everything Healthy and Well Grown.

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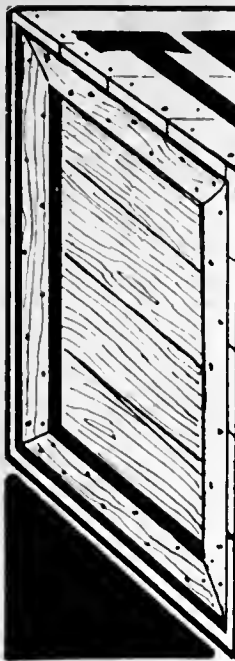
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Personal care given, everything guaranteed true to name. Write for prices.

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P. S.—I also have a very select stock of
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OFFERS UNEXCELLED SERVICE
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FOUR DAILY VESTIBULED TRAINS

BUFFALO—TO—CHICAGO

THREE DAILY VESTIBULED TRAINS

BUFFALO

•———TO ST. LOUIS, KANSAS
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FREE RECLINING CHAIR CARS.

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Headquarters for :

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PAEONIAS—Large Assortment, Named Varieties.

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Apples, Pears, Plums, Cherries and Quinces, CURRANTS
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We give special attention to Dealers' complete lists.

Fall trade list on application.

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W. C. REED, VINCENNES, IND.

We offer for Fall of 1901 the following in Car Lots:

Apple 2 and 3 year. Pear Std. and Dwf. Cherry 1 and 2 year. Plum 1 and 2 year; Japan and European. Peach 1 year. Soft Maple, Elm, Box Alder, Ash and Wiers Cut Leaf Maple.

Also Nice Stock of Roses, Shrubs and Small Fruits.

Personal inspection invited.

Black Locust Mulberry.

Honey, Locust, Ash, Box Elder, Maple, Catalpa and Elm Seedlings. Asparagus, Rhubarb, Strawberries.

APPLE AND PEAR Seedlings in good supply.

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THE NEW JERSEY WONDER. Will grow Ward Blackberry Root Cutting Plants on contract for Nurserymen and dealers for fall delivery, 1904. Write for prices. State quantity wanted.

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Baird, N. J.

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JOHN FRASER, PROP.

HUNTSVILLE, ALA.

I will commence June Budding the end of May. I offer to grow special orders of June buds of PLUM AND PEACH for next fall delivery. I have a complete assortment of varieties true to name.

I ALSO OFFER FOR FALL,

STANDARD PEAR, one and two years. CHERRY, one and two years; PECANS, one and two years; MULBERRYS, one year, large grades; MAGNOLIA GRANDIFLORA, three years; CALIFORNIA PRIVET, one year; MANETTI, MULTIFLORA and MARIANA STOCKS. DWARF BOX, H. P. MOSS, PLANTIER, NEIL and PRAIRIE ROSES.

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ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

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BOSTON, MASS.

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W. M. PETERS SONS

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SNOW HILL, MD

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.

Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

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FOR FALL 1904 WE OFFER A GENERAL ASSORTMENT OF WELL GROWN STOCK

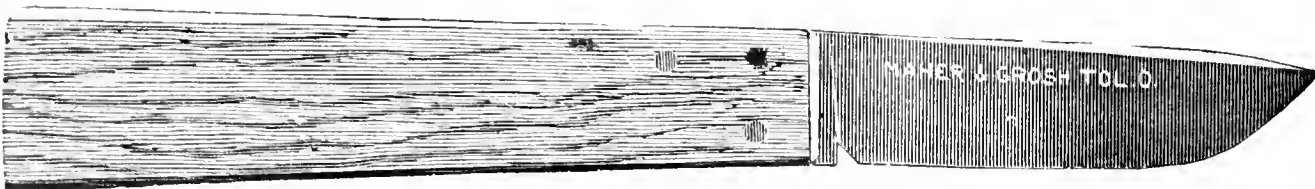
Apple, Pear, Cherry, Plum,

California Privet 1 and 2 year, Asparagus, Osage Orange,

Shade Trees in large sizes, Fine Stock

of Shrubs, Roses, Etc.

Franklin Davis Nursery Co. : BALTIMORE, Md.



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Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2 25.

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Hand Forged. Razor Steel. Warranted.

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The Reiter Patent Bolster Spring.



SEE THAT HANGER.

IT WILL NOT UPSET.
IS UNBREAKABLE.
DOES NOT INTERFERE WITH BRAKE.
HAS DOUBLE SWEEP. ELLIPTIC SPRINGS.
Is built on correct principles, from best obtainable material by expert workmen. A Spring advertised to carry 1,000, 3,000 or 5,000 capacity. Carries them. No skimping.

YOU Can save yourself, money, wagon, harness AND WHATEVER YOU HAUL. Your product reaches market to command TOP NOTCH PRICES.

Too cheap to be without. Write to-day for prices, giving width between bolster stakes and capacity wanted.

Pittsburg Bolster Spring Co.,

DEPT. 2.

PITTSBURG, PA.

I Was in it Last Year--The Great May Flood

I Am in it This Year--The Seedling Trade.

Come and See Me.

Write for Prices on both

Apple and Japan Pear Seedling

I have a large stock of both French and American Apple Seedlings to offer the trade.

I also offer for the Fall of 1904 and Spring of 1905 a fine lot of . . .

1 and 2 Year Apple

Won't You Kindly Divide Your Orders with me. It will do us Both Good

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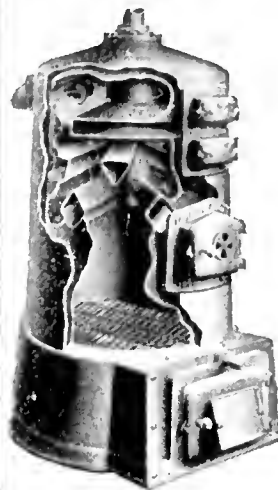
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Buy "Burnham" Boilers
Mail to-day to our New York Office



five cents for postage and we will send you our Catalogue illustrating

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and large sectional boilers The former are adapted for Greenhouses of moderate size. **Cast in one piece above base.** No joints to leak. Work Economically, Easily, Efficiently Save money by buying them.

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KNOX NURSERIES

We offer for Fall of 1904 a large number of our well known ONE YEAR CHERRY, two year Cherry, Peach, Apple and a general line. Also have a lot of Fine Norway Spruce 2-3 ft. Will make Special Inducements for early orders of Cherry and Peach. Personal inspection invited. Correspondence solicited.

H. M. SIMPSON & SONS,

VINCENNES, IND.

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Capital Nurseries

NORTH TOPEKA, KANSAS

HAVE TO OFFER

Apple Seedling Pear Seedling

Apple, Peach and Cherry Trees

Keiffer Pear

Bechtel's Double Flowering Crab

Grape Vines Flowering Shrubs

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In STANDARD PEARS, extra size, 6 to 7 ft; 1 inch and up 5 to 6 ft; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere.

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— Salt Lake City, Utah, —

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Offer in surplus for SPRING 1904, all kinds of first class Nursery Stock

SPECIAL LOW PRICES

will be quoted on Apples, Plums, Cherry and Asparagus, Sweet Gum, Tulip, Silver Maples, Am. Elm, Scotch Elm, Oaks in variety, Magnolia Accuminata, Ash in variety, Catalpas, Cypress, Yellow Wood, Red Bud, Am. Sycamore, Paulownia and others. All sizes from 4 to 15 feet. Spirea Van Houtti, Hydrangeas, Weigelas, Lilacs, Berberry, Deutzias, Cut Leaf Elder, Purple Fringe, Syringas, Snowberry and many other Shrubs. Seedlings such as Catalpas, Mulberrys, Oaks, Maples, Sweet Gum, Ailanthus, Hackberry, Red Bud, Calycanthus, Snowballs, Hydrangeas, and others, Paeonias, Perennials, etc. Send your list of wants for special prices. Correspondence solicited.

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Successors to DONALDSON & GIBSON

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P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

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GULF CYPRESS Greenhouse Material

CUT AND SPLICED READY FOR ERECTION
Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus



GLASS at Wholesale

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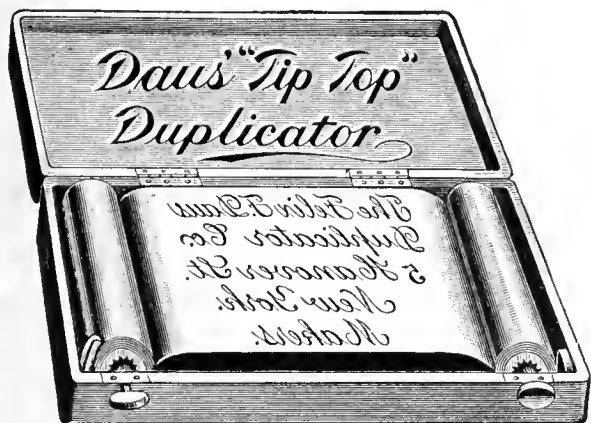
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1365 to 1373 Flushing Avenue
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We furnish everything for building.
Send for prices and catalogue

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TO PROVE that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

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No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 years' experience in Duplicators. Price for complete apparatus, size No. 1, \$7.50, subject to the trade discount of 33 1/3 per cent., or \$5.00 net.

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For Nurserymen and Florists

DAYTON FRUIT TREE LABEL Co.

South Canal Street, Dayton, Ohio

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4,000,000 PEACH TREES

SIDE LINE

300,000
2 Year Apple
Assorted Varieties.

100,000
1 Year Kieffer Pear

100,000
Assorted Cherry
1 Year Buds.

50,000
1 Year Plum

50,000
June Budded Plum

See me or write for prices before you place your order.

TENNESSEE WHOLESALE NURSERIES

WINCHESTER, TENN.
J. C. HALE, Prop.

Largest Stock of Peach in the United States

JUNE BUDS A SPECIALTY

Am now ready to book orders for delivery, Fall 1904 and Spring 1905.

BOX STRAPS

LIGHT SHEET STEEL STRAPS.

Averaging about an inch in width. Any lengths up to 63 inches.

The best and cheapest material on the market for the purpose. Soft, tough, strong and easily applied. A wire nail can be driven through without previous punching. Write for Price List.

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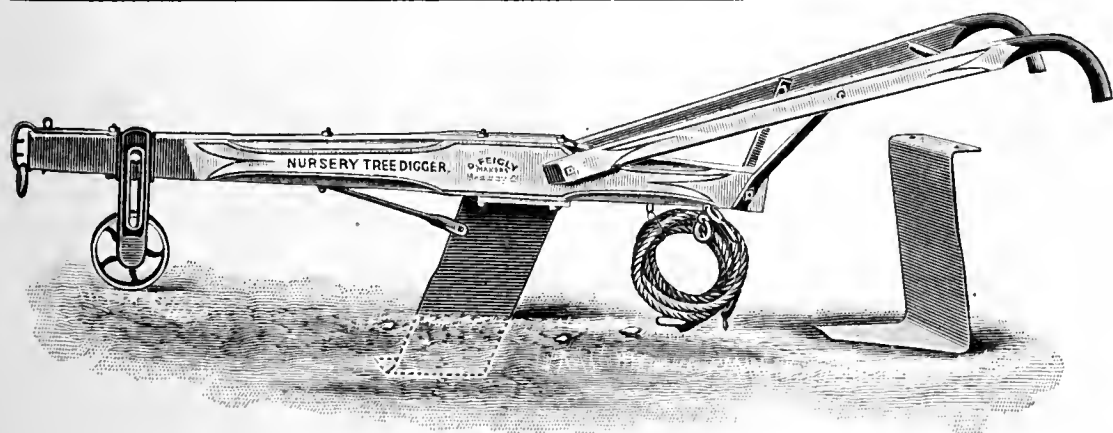
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Known the world over.

All standard varieties, warranted true, grade unsurpassed. Immense stock, 1 and 2 years. Fine stock Currants, Cherries, Pears, Plums, Etc. All orders large or small cared for in a substantial manner. Give us a trial order. *Send list of wants for prices.*

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We are manufacturers of *Standard Flower Pots* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

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GROWER AND EXPORTER OF FRUIT TREE STOCKS FOREST TREES AND ORNAMENTALS

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

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NEWARK, N. Y.

Sole Representatives for the United States.

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GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs, Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

WE MAKE A SPECIALTY OF GROWING

Catalpas, Black Locust, Russian Mulberry, Red Bud, Green Ash, Box Elder, Sweet Gum, American Persimmon, Walnuts, Birches, Beeches, Sycamores, Altheas, Lindens, and a general line of nursery-grown and Collected Seedlings for Nurserymen's planting.

It will pay you to get my prices before ordering elsewhere.

FOREST NURSERY & SEED CO.

Irving College, Tenn., Warren County.

THE IMPROVED FEIGLY DIGGER

A Money Saving Tool for Nurserymen.

MANUFACTURED BY

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ELMIRE SEBIRE

FILS AINE, USSY CALVADOS FRANCE

Grower and Shipper of Nursery Stock

Ornamentals, Trees and Shrubs; Evergreens, Conifers.
Forest Trees, for Spring or Fall shipment.

Send for estimates to our sole American agents,

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Importers of NURSERY STOCKS, FRUIT and TREE SEEDS.

RAFFIA FIBRE in Prime Nurserymen's Quality.

BUSINESS OPPORTUNITY.

An experienced Nursery Agent Correspondant who has the ability to get and handle salesmen successfully and who also has a practical knowledge of the business both in the nursery and office, the filling of orders and handling of men on the packing ground is desirous of bettering himself. Would run a branch office for an established house (grower preferred) either on salary and commission or a share of the profits.

Fifteen years experience. Strictly temperate. A-1 references.

Address BUSINESS-GETTER,

Care National Nurseryman,

Rochester, N. Y.

We can now make you satisfactory prices on

Apple and Pear Seedlings.

Write us, we can tell you something that will please you.

N. E. COPELAND, *Oakland, Kan.*

Buds!

Will fumigate if desired. Send me your want list.

B. F. KEAN. *Stanley, N. Y.*

All the leading varieties of APPLE, PEAR, PEACH, PLUM and CHERRY. Trees making excellent growth and free from insects and disease. Certificates furnished.

WANTED TO BUD

Peach Trees on contract for Fall 1905 delivery. A fine stand of seedlings on new ground never before cropped with trees. No disease; good grading. Years of experience in raising Peach Trees for leading peach sections. Our trees are second to none and better than many. Your own buds used if desired. Correspondence solicited

H. S. DAY, *Fremont, Ohio.* Care of Fremont Nursery.

WE OFFER FOR FALL LARGE STOCK

June Bud Peach and Plum

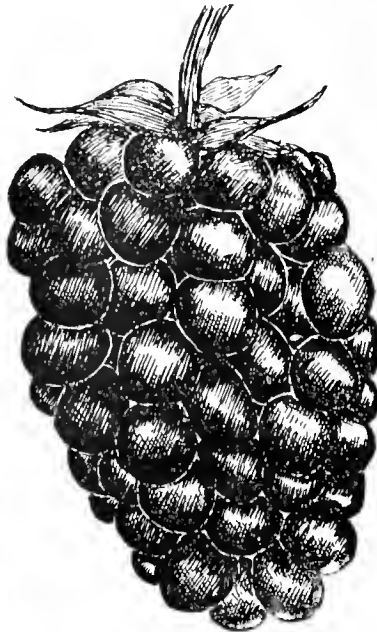
We are now June budding May 30th

We will contract to grow June Bud Peach and Plum of special varieties.

Also offer a fine line of 1-2 year Apple, 1 year Peach, 1 year Pear and Cherry.

Chattanooga Nurseries

CHATTANOOGA, TENN.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,

BRIDGEVILLE, DEL.

WANTED

Manager of retail nursery for fifteen years, desires connection with some good house. Good correspondent, original, good collector, and capable of managing packing yard. Highest credentials.

Address "Manager"

c/o NATIONAL NURSERYMAN.



CHASE'S NEW HAMPSHIRE MAID

WOOD LABELS

For Nurserymen and Florists.

BENJAMIN CHASE,

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LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

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Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

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BRIDGEPORT NURSERIES

For Fall 1904 and Spring 1905

We will have our usual large supply and complete assortment of stock for the TRADE in CAR-LOAD or SMALLER LOTS.

For early orders special prices will be named.

Apple, Pear, Plum, Cherry, and Quince can be shipped from Dansville, New York.

Apple Trees and **Apple Seedlings** can be shipped from TOPEKA, KANSAS.

From Bridgeport, Indiana, we are prepared to ship a complete assortment of **Hardy Fruit** and **Ornamental Trees, Plants, Vines, Seedlings, etc.**

Send us your list of wants before placing orders, and we will make you prices.

Personal inspection invited—come and see us.

Spades, the BEST and CHEAPEST. **Excelsior** (baled) the best packing material for either shipping or storage (cheaper and far superior to Moss.)

Box Straps, soft steel.

Our storage and shipping facilities are unsurpassed.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport, Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

SURPLUS, SPRING 1904

- 150,000 California Privet, fine plants.
- 25,000 Peach, first-class, 6 to 8 ft.
- 15,000 Cherry, 3 to 4 ft. and 2 to 3 ft.
- 10,000 Japan Plums, (fine) $\frac{3}{4}$ up and $\frac{5}{8}$ to $\frac{3}{4}$, 6 to 8 ft.
- 6,000 Shropshire Damson, $\frac{1}{2}$ to $\frac{5}{8}$, and $\frac{5}{8}$ to $\frac{3}{4}$, 5 to 7 ft.
- 4,000 Carolina Poplar, 2 year, 10 to 14 ft.
- 2,000 Sugar Maple, $1\frac{1}{2}$ to 2 in., 10 to 12 ft.
- 1,000 American Elm, $1\frac{1}{2}$ to 2 in., 12 to 14 ft.
- 600 American Linden, $1\frac{1}{2}$ to 2 in., 12 to 15 ft.
- 200 Bushels small Peach Pits, crop 1903, at cost.

WANTED—Apple and Pear Trees, Apple Seed, Apple Seedlings and Ornamental Seedlings.

SURPLUS

Apple Trees
Root Grafts
Forest Seedlings

A full line of SHADE and ORNAMENTAL TREES and SHRUBS.

—WRITE FOR PRICES.—

YOUNGERS & CO., Geneva, Neb.

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THE BEST IS
WORTH THE
DIFFERENCE.



THOMAS MEEHAN & SONS, Inc. Dreshertown, Penna.

Nursery Street

Pears! Pears! Pears! **BARTLETT PEARS.** One two and three year old, as fine as can be grown. Will exchange for Peaches, or sell at a very low figure. Write for prices in car or part car lots.

DAVIS COUNTY NURSERIES,

Harness, Dix & Co., Prop.

35-36 Hooper Bldg, Salt Lake City, Utah.

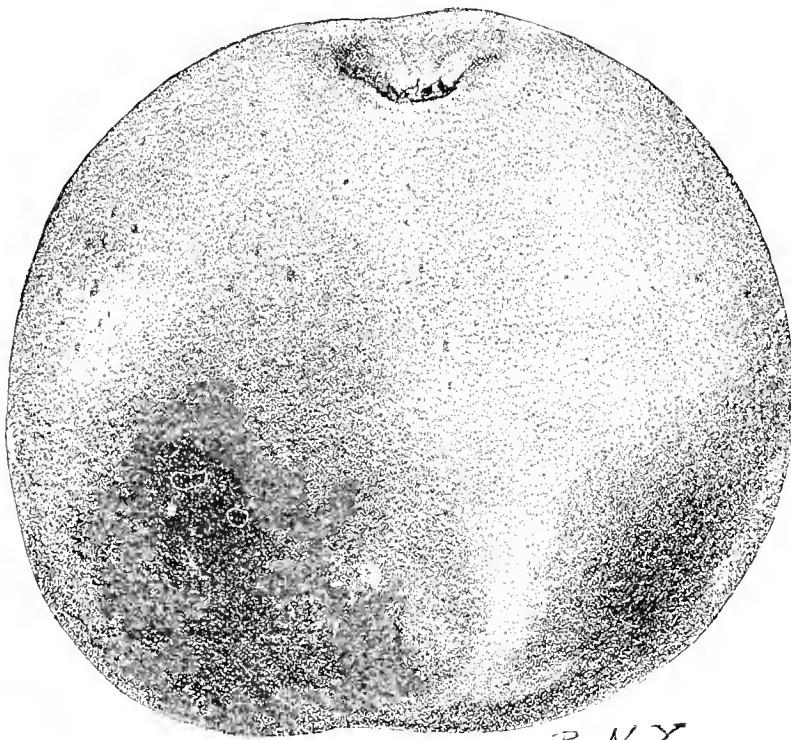
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Buds! Buds! Buds!

PEACH BUDS

FOLLOWING VARIETIES:

Alexander	Amsden June
Ark. Traveller	Ark. Beauty
Bilyue	Burton's Oct.
Bernards Early	Beauty B.
Bequett Free	Brandywine
Belle of Ga.	Bokana
Barber	Burke
Chari's Choice	
Crawford Late	Carman
Crosbey	Coolridge
Chilow	Connecticut
Cobler	Conklin
Chinese Cling	Champion
Crawford Early	Delaware
Denton	Dover
Elberta	Engle's Mammoth
Edgemont	Early Michigan
Everbearing	
Eureka	
Easton Cling	
Early Davidson	
Early Toledo	
Early Heath	
Foster	
Fitzgerald	
Francis	
Frederica	
Fox Seedling	
Ford's Late White	
Frederie Free	
Globe	
Garfield	
Gold Mine	
Gordan	
Greary's Holdon	
Gold Drop	
Hughes	
Heard's Beauty	
Haines Surprise	
Hale's Early	
Holland' Cling	
Holderbaum	
Heidelberg	
Hobson's Choice	
Jennie Worthien	
Jaques R. R.	
Kalamazoo	
Klondike	Lewis
Lodge	Leon Cling
Levy's Late	L. Early York
Matthews Beauty	
Magnum Bonum	
Mrs. Brett	Marshall
Miss Lolo	Mary's Choice
New Prolific	Niagara
Newington Cling	Oscar
Pearce's Yellow	
Phillips Hortons	
Red June	Reeves Favorite
Ray	
Red Cheek Melocton	
Salway	
Smock Cling	
Schumaker	
Shipley's L. Red	
Sunrise Cling	
Steadley	
Scott's Nonpareil	
Switzerland	
Troth's Eearly	
Van Meteor L. O.	
Victor	Wonderful
W. F. Allen	
William's Favorite	Weaver
Waterloo	Wheeler's Late
Walker's V. Free	
Ward's Late	
Willett	
Wager	
Wilkin's Cling	
W. H. Cling	
Yellow Oct.	
Yellow Ripe	



ALSO PEAR, PLUMS and CHERRY BUDS.

GENERAL LIST OF VARIETIES.

HAVE FINE STOCK OF

Peach, Apple and Kieffer Pear ALL SIZES and GRADES.

WILL QUOTE PRICE ON APPLICATION.

WILL BE REPRESENTED AT CONVENTION BY ORLANDO
HARRISON, WHO WILL BE GLAD TO MEET YOU.

J. G. HARRISON & SONS,

Berlin, Md.

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FOLLOWING VARIETIES:

Arkansas Black	Alexander
American Blush	
Amer. Golden Russett	
Albermarle Pippin	
Baldwin	Ben Davis
Black Ben Davis	
Bell de Roseoop	
Belmont	Bailey's Sweet
Boken	Benona
Cole	Coffelet
Clark's Orange	Chase's Jelly
Cart House	Duchess
Dominine	Detroit Red
Delicious	
Early Pennock	
Esopus Shitzenburg	
Early Colton	
Early Harvest	
Fallwater	Flora Bell
Fourth of July	
Famuese	Fall Pippin
Grimes Golden	
Gano	Gen. Grant
Gravenstein	
Huntsman's Far	
Hubbards Nonsuch	
Haas	Hurlburt
Hyslop	Hubbardston
Iowa Blush	Jonathan
Jersey Sweet	
King	
Kentucky Red Streak	
Kennards Choice	
Legal Tender	
Lowell	Loy
Longfield	Lansingburg
Lawyer	
Lankford Seedlings	
Limber Twig	M. B. Twig
Maiden's Blush	Mo. Pippin
Mc. Intosh Red	
Montreal Beauty	
Milan	Mann
Kinkler	Martha
N. W. Greening	
Newtown Pippin	
Northern Spy	
Nero	Ohio Nonpareil
Porter	Price's Sweet
Pecks Pleasant	
Primate	Plum Cider
Pewaukee	R. I. Greening
Rome Beauty	
Red Astrachan	
Red June	Roman Stem
Rawles Janet	
Rolfe	Romanite
Red Beitingheimer	
Rambo	Stark
Sweet Bough	
Stayman's Winesap	
Springdale	Summer Rambo
Senator	Sutton's Beauty
Salome	Seek-No-Further
Starr	Shackelford
Swarr	
Stewart's Golden	
Stark	Smith Cider
Twenty Ounce Pippin	
Talpehocken	
Transcendent	
Tallman Sweet	Utters Red
Virginia Beauty	
Vandevere Pippin	Wealthy
W.W. Pearmain	Wolf River
Whitney	Wagner
Winter Rambo	Walbridge
Winter Blush	Wismer
Willow Twig	Winesap
White June	
York Imperial	
Yellow Transparent	
Yellow Bellflower	

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August. 1904

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Will find the most complete
line of supplies, including

Fruit and Flower Plates

of all kinds, Lithographed and Photo Process

Circulars in colors

Catalogues

Price Lists

and all forms used by Nurserymen constantly in stock

Vredenburg & Co.

228 to 236 South Avenue

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*The best equipped plant in this country for producing
up-to-date Nursery Catalogues in black or Colors.
Send for Catalogue and Price List. We bind our
books to stay. If you have not tried them, do so.*



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OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF NURSERY
AND FLORISTS' STOCK IN THE UNITED STATES, INCLUDING

**Fruit and Nut Trees, Deciduous and Ever-
green Trees and Shrubs, Roses, Hardy Vines
and Plants, Small Fruits and Grape Vines,
Tender Plants, Bulbs and Seeds** *♪ ♪ ♪ ♪*

SOME FINE STOCK ON WHICH WE CAN QUOTE LOW RATES IN
**Elms, Willows, Poplars, Philadelphus-Deutzias, Tree and Bush Hy-
drangea, Thunbergs Berberry, Climbing Honeysuckles and Ampe-
lopsiis Veitchii.**

An extra fine lot of **Tree Roses** for fall delivery. Hardy, home-grown **Field
Roses**—largest and best stock in country.

Immense stock of **Grape Vines** and **Small Fruits, Currents, Root-
Cutting Blackberries**, etc., in large assortment of varieties graded right.

Azalias, Palms, Ficus, Araucarias and other Decorative Plants in large
supply. **French, Holland, Japan** and **Bermuda Bulbs**—direct importations
from the best growers.

Pleased to price your list of wants or to show you our stock. Special inducements
for car lots on Fall delivery or stored for Spring shipments. If you have not received
our fiftieth anniversary descriptive catalog, send for it.

Catalogs and Price Lists free.

50 YEARS. 1200 ACRES. 44 GREENHOUSES.

The Storrs & Harrison Co.,
PAINESVILLE, OHIO.

Fay's Currants

TWO YEAR PLANTS,

ALSO

General Nursery Stock

The Finest Collection in America.

Catalogue on Request.

Ellwanger & Barry,

MT. HOPE
NURSERIES

Rochester, N. Y.

A FEW of our SPECIALTIES

ROSES, Crimson Rambler, Dorothy Perkins, H. P's.

AMPELOPSIS VEITCHII, 2 years and 3 years.

CLEMATIS, Leading large flowering varieties.

BERBERIES, Purple-leaved and Thunbergii.

HYDRANGEA PANICULATA GRAND-IFLORA, Standards and Bush-form.

HONEYSUCKLES, Climbing and Upright.

JAPAN QUINCE, Large stock, strong plants.

PRIVET, CALIFORNIA, Transplanted, very bushy.

PAEONIAS, Large roots, 40 best varieties.

SNOWBALLS, Japan and Common.

CURRENTS, GOOSEBERRIES.

Send us list of your wants for quotations.

JACKSON & PERKINS CO.

NEWARK, NEW YORK

Mail Order Trade

Is desired by almost every progressive nurseryman, and if you are looking for this class of business, an advertisement in "The Fruit Grower," St. Joseph, Missouri, will place you in touch with planters who order by mail every year. On September 1st, 1904, the rate will be advanced and the guaranteed circulation will be

40,000 a month. Rate \$2.80 Per Inch.

Write at once for copy of our new illustrated booklet, "The Evolution of an Idea," which gives information in detail regarding the best fruit paper in America.

The World's Fair Number

Will be issued about September 1st. This will be an "extra" edition for circulation at the St. Louis Fair, and while we guarantee 50,000 copies, the edition will no doubt exceed 100,000. The rate will not be advanced. Write at once for full information.

The fruit Grower Co.

331 SOUTH SEVENTH STREET. ST. JOSEPH, MISSOURI.



(TRADE MARK.)
BROTHER JONATHAN.

Specialties for Fall

CHERRIES. PLUMS. MULBERRIES.
WALNUTS—ENGLISH AND JAPAN. PECANS.

EXOCHORDA. LILACS. LONICERAS.

HYDRANGEAS—Field Grown, Strong.

THOS. HOGG, ROSEA, ETC.

CAMELLIAS, AZALEAS, GARDENIAS, MAGNOLIAS.

HEDGE PLANTS:

AMOR RIVER AND CALIFORNIA PRIVET IN
LARGE QUANTITIES.

CITRUS TRIFOLIATA. BERBERIS THUNBERGII.

SPIROEA THUNBERGII.

BIOTA AUREA NANA. CEDRUS DEODARA.

LIBOCEDRUS DECURRENS.

JUNIPERS. RETINOSPORAS.

ORANGES, LEMONS AND OTHER CITRUS FRUITS.

300,000 PALMS.

KENTIAS, LATANIAS, PHOENIX.

FIELD GROWN ROSES—Own Roots and Budded.

NO SCALE and Everything Healthy and Well Grown.

P. J. BERCKMANS COMPANY, Inc.

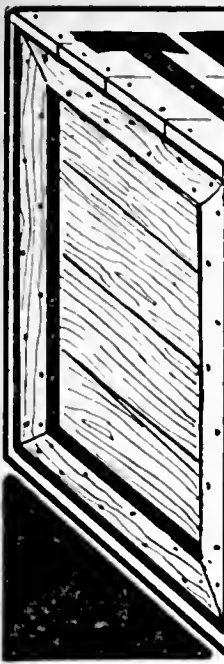
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Est. 1856

Over 450 Acres in Nursery

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Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together? It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS
WAUSAU, WIS.

GOODWILLIE BROTHERS
407 New York Life Bldg., Chicago, Ill.

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A very fine collection of over 1,000 distinct named sorts, all of the latest novelties nearly all the older sorts. To be fair and impartial we feel one ought to try all to get the very best. Our list includes nearly a complete list of all growers everywhere—Kelw ys, Paillets, Lemoines, Dessert, Terry, etc.

We have an especially fine proven stock of the following : Festiva Maxima, Floral Treasure, Golden Harvest, Marie Lemoine, Whitley, Dorchester, Rubra Superba, Tenuifolia, and many others, 1 to 10,000 each.

Personal care given, everything guaranteed true to name. Write for prices.

C. BETSCHER, Peony Specialist

P. S.—I also have a very select stock of
Cannas, Gladioli, Dahlias, Etc.

Canal Dover, Ohio, U. S. A.

The way to go to the
WORLD'S FAIR is via

Wabash R. R.

The only line landing passengers
at the main gate of the

LOUISIANA PURCHASE EXPOSITION St. Louis, Mo.

TRAINS LEAVE BUFFALO DAILY
2:00 a. m., 8:15 a. m., 1:30 p. m., 8:30 p. m.
ARRIVES WORLD'S FAIR STATION
7:01 p. m., 7:19 a. m., 7:50 a. m., 1:31 p. m.
ARRIVING UNION STATION
7:15 p. m., 7:33 a. m., 8:04 a. m., 2:00 p. m.

Season Tickets, \$28.40 60 Day Tickets, \$23.70
15 Day Tickets, \$19.75

Coach Tickets good one week (sold Tuesdays and
Thursdays) \$14.00

Pullman's Newest Type of Sleepers. Electric Lighted Chair
Cars (Seats Free.) Wabash Dining Cars.

**Ticket Office, 287 Main Street
ELLICOTT SQUARE.**

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ST. LOUIS, MO.
JAMES GASS, N. Y. S. P. A.

R. F. KELLY,
Gen'l Agt. Pass. Dept.,
BUFFALO, N. Y.

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THE Geneva Nursery

Established in 1846.

Headquarters for : :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of : :

SHRUBS—Upright, Climbing and Standard.
ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.
RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.
PÆONIAS—Large Assortment, Named Varieties.
DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in : :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.
Fall trade list on application.

W. & T. Smith Co., GENEVA, NEW YORK.

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Vincennes Nurseries

W. C. REED, VINCENNES, IND.

We offer for Fall of 1904 the following in Car Lots:
Apple 2 and 3 year. Pear Std. and Dwf. Cherry 1 and 2 year. Plum 1 and 2 year; Japan and European. Peach 1 year. Soft Maple, Elm, Box Alder, Ash and Wiers Cut Leaf Maple.

Also Nice Stock of Roses, Shrubs and Small Fruits.
Personal inspection invited.

Black Locust Mulberry.

Honey, Locust, Ash, Box Elder, Maple, Catalpa and Elm Seedlings. Asparagus, Rhubarb, Strawberries.

APPLE AND PEAR Seedlings in good supply.

J. A. GAGE,

Beatrice, Neb.

WANTED TO PURCHASE A NURSERY.

The present owner to remain as manager if he choose on a good salary. Send estimate count of each and every variety, age and lowest price. Address,

CAPITALIST, THIS OFFICE.

The Fraser Nursery

JOHN FRASER, PROP.

HUNTSVILLE, ALA.

I will commence June Budding the end of May. I offer to grow special orders of June Buds of PLUM AND PEACH for next fall delivery. I have a complete assortment of varieties true to name.

I ALSO OFFER FOR FALL,

STANDARD PEAR, one and two years. CHERRY, one and two years; PECANS, one and two years; MULBERRYS, one year, large grades; MAGNOLIA GRANDIFLORA, three years; CALIFORNIA PRIVET, one year; MANETTI, MULTIFLORA and MARIANA STOCKS. DWARF BOX, H. P. MOSS, PLANTIER, NEIL and PRAIRIE ROSES.

WRITE FOR PRICES.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of

Beacon Building,

Highlands Nursery, N. C.

BOSTON, MASS.

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W. M. PETERS SONS

R. F. D.

SNOW HILL, MD

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

GRAPE

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.

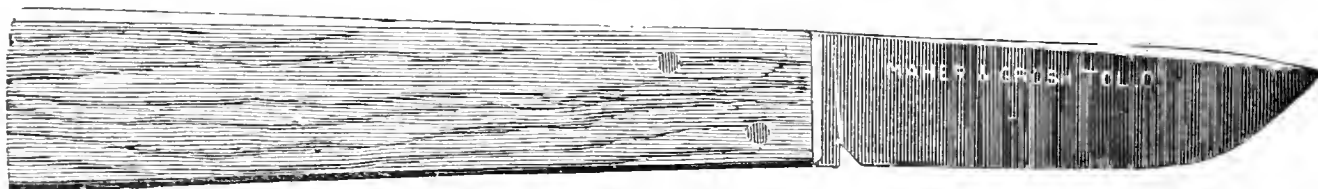
Send list of wants for prices

VINES

FOR FALL 1904 WE OFFER A GENERAL ASSORTMENT OF WELL GROWN STOCK

Apple, Pear, Cherry, Plum,
California Privet 1 and 2 year, Asparagus, Osage Orange,
Shade Trees in large sizes, Fine Stock
of Shrubs, Roses, Etc.

Franklin Davis Nursery Co. : BALTIMORE, Md.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2 25.

BUDDING KNIFE with folding blade, No. 93 By mail 35 cents; 6 for \$1.75.

GRAFTING KNIFE, 25 cents. Heavy Pocket Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.

SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

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Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

Nurseries For Sale

Have made 7 to 10 per cent. for years.

Have ONE OF THE LARGEST FORCES OF SALESMEN.

Have a large stock and splendid blocks of young growing Fruit Trees, Plants, and a very complete line of ornamentals.

Have splendid up-to-date management in office and field.

Have best of facilities.

Owing to the enforced retirement of two of the Company they desire to sell.

Cash or a good note will be accepted.

7 to 10 per cent. on your investment, besides **\$10,000 to \$25,000 made by purchaser.**

Apply to "MUTUAL"

care of *National Nurseryman*

I Was in it Last Year--The Great May Flood

I Am in it This Year--The Seedling Trade.

Come and See Me.

Write for Prices on both

Apple and Japan Pear Seedling

I have a large stock of both French and American Apple Seedlings to offer the trade.

I also offer for the Fall of 1904 and Spring of 1905 a fine lot of . .

1 and 2 Year Apple

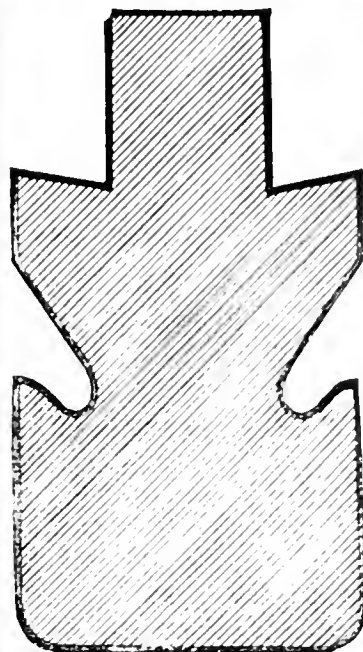
Won't You Kindly Divide Your Orders with me. It will do us Both Good

A. L. BROOKE, PROP.,

North Topeka Nurseries

North Topeka and - - Grantville, Kansas

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**A GOOD TIME TO BUY
Gulf Cypress Greenhouse Material
Is the Present Time.**

If you want the best quality send us your orders



OUR wood work is well finished by special machinery, is air dried, free from imperfections and durable.

Write to our New York Office for circular and prices. Mail ten cents in stamps for our Greenhouse Construction and Heating Catalogues, 5c. each for postage.

LORD & BURNHAM COMPANY,

New York Office: St. James Bldg, 1133 Broadway

General Office and Works:
Irvington-on-Hudson, N. Y.

1851

1904

KNOX NURSERIES

We offer for Fall of 1904 a large number of our well known ONE YEAR CHERRY, two year Cherry, Peach, Apple and a general line. Also have a lot of Fine Norway Spruce 2-3 ft. Will make Special Inducements for early orders of Cherry and Peach. Personal inspection invited. Correspondence solicited.

**H. M. SIMPSON & SONS,
VINCENNES, IND.**

Peters & Skinner

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS

HAVE TO OFFER

Apple Seedling Pear Seedling

Apple, Peach and Cherry Trees

Keiffer Pear

Bechtel's Double Flowering Crab

Grape Vines Flowering Shrubs

Shade Trees

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A BARGAIN

In STANDARD PEARS, extra size, 6 to 7 ft; 1 inch and up 5 to 6 ft; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere.

Address

Pioneer Nurseries Company,
— Salt Lake City, Utah, —

PEACH SEED.

CROP OF 1904

Crop is not a full one but we will have a fair supply.
Write for particulars.

We have the following Apples in surplus
and will make quotation on application.

BEN DAVIS, YORK IMPERIAL, STAYMANS,
ALB. PIPPIN, FALLAWATER, ROME
BEAUTY, REAGAN, LIMBERTWIG,
SPRINGDALE, TRADERS FANCY,
GRIMES AND VA. BEAUTY.

J. Van Lindley Nursery Co.,
POMONA HILL NURSERIES,
POMONA, N. C.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

GULF GYPRESS Greenhouse Material

CUT AND SPLICED READY FOR ERECTION
Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus



GLASS at Wholesale

Try our Seal Tight Liquid Putty
Sample Gallon, 75 cents

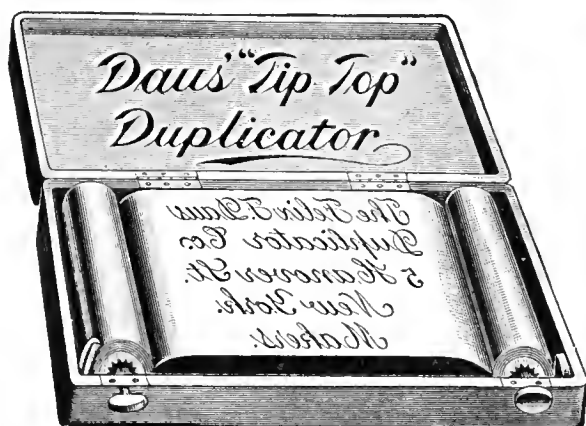
S. JACOBS & SONS

MANUFACTURERS

1365 to 1373 Flushing Avenue
BROOKLYN, N. Y.

We furnish everything for building.
Send for prices and catalogue

CALIFORNIA PRIVET, FINE ONE YEAR
LOMBARDY POPLARS, 10 TO 16 FT;
PEACH TREES, FINE STOCK
ALL MY OWN GROWING.
JOSIAH A. ROBERTS
MALVERN, PA.



What Is Daus' Tip-Top?

TO PROVE that Daus' "Tip-Top" Duplicator is the best
simplest, and cheapest device for making

100 copies from Pen-written and 50 copies from Type-written original

we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial if you
mention The National Nurseryman.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of
23 year's experience in Duplicators. Price for complete apparatus, cap size (prints 8 1/4 in. by

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FELIX A. M. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

WOOD LABELS OF EVERY DESCRIPTION

For Nurserymen and Florists

DAYTON FRUIT TREE LABEL Co.

South Canal Street, Dayton, Ohio

When writing to Advertisers mention The National Nurseryman.

4,000,000 PEACH TREES

SIDE LINE

300,000
2 Year Apple
Assorted Varieties.

100,000
1 Year Kieffer Pear

100,000
Assorted Cherry
1 Year Buds.

50,000
1 Year Plum

50,000
June Budded Plum

See me or write for
prices before you place
your order.

TENNESSEE WHOLESALE NURSERIES

WINCHESTER, TENN.
J. C. HALE, Prop.

Largest Stock of Peach in the United States

JUNE BUDS A SPECIALTY

Am now ready to book
orders for delivery,
Fall 1904 and Spring
1905.

BOX STRAPS. Uncut Lengths. 28 in. and 63 in. SHORTER LENGTHS TO ORDER.

Soft tough strip steel. Can drive a nail through the Straps without
previous punching. Cheapest and best Straps for Nurserymen
on the U. S. market. Write for sample and prices.

References—Nurserymen Generally.

WARD-DICKEY STEEL CO.,

Manufacturers of
PLANISHED SHEET STEEL.

Indiana Harbor, Ind.

FREDONIA GROWN GRAPE VINES

Known the world over.

All standard varieties, warranted true, grade unsurpassed. Immense
stock, 1 and 2 years. Fine stock Currants, Cherries, Pears, Plums, Etc.
All orders large or small cared for in a substantial manner. Give us a trial
order. Send list of wants for prices

FOSTER & GRIFFITH, FREDONIA, N. Y.

POTS! POTS! POTS!

We are manufacturers of *Standard Flower Pots* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY, 213-23 Pearl Street
NORRISTOWN, PA.

CHARLES DÉTRICHÉ, Senior

ANGERS, FRANCE

GROWER AND EXPORTER OF FRUIT TREE STOCKS FOREST TREES AND ORNAMENTALS

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON, CHATENAY SEINE, FRANCE

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs, Gladioli, Etc Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

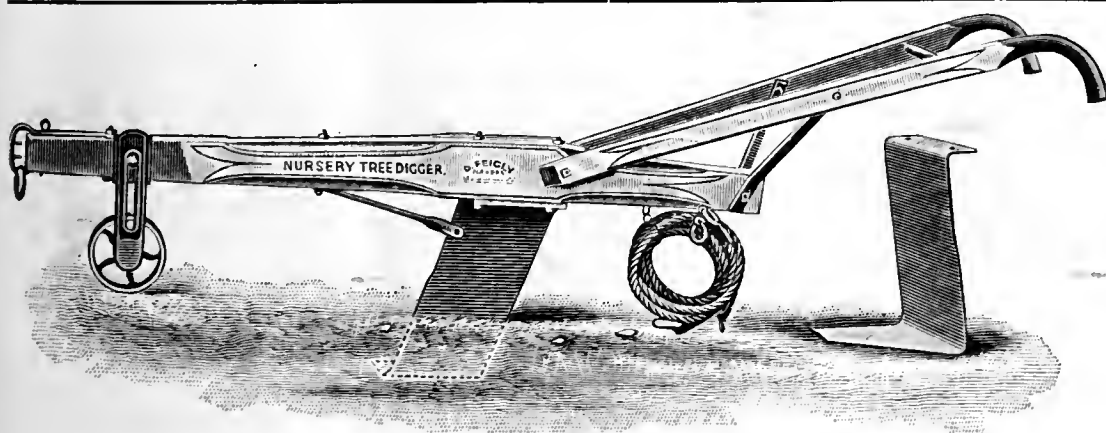
WE MAKE A SPECIALTY OF GROWING

Catalpas, Black Locust, Russian Mulberry, Red Bud, Green Ash, Box Elder, Sweet Gum, American Persimmon, Walnuts, Birches, Beeches, Sycamores, Altheas, Lindens, and a general line of nursery-grown and Collected Seedlings for Nurserymen's planting.

It will pay you to get my prices before ordering elsewhere.

FOREST NURSERY & SEED CO.

Irving College, Tenn., Warren County.



THE IMPROVED FEIGLY DIGGER

A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

D. FEIGLY, Medway, O. Sole Agent. Send for Circular.

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE

FILS AINE, USSY CALVADOS. FRANCE

Grower and Shipper of Nursery Stock

Ornamentals, Trees and Shrubs; Evergreens, Conifers.
Forest Trees, for Spring or Fall shipment.

Send for estimates to our sole American agents,

AUGUST RÖLKER & SONS,

P. O. Box 752.

31 BARCLAY STREET, NEW YORK

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS.

RAFFIA FIBRE in Prime Nurserymen's Quality.

XENIA STAR NURSERIES.

Submit your want list, (actual or estimated) for special prices on

Apple, Pear, Cherry, Plum, Peach,

Also Grape Vines, Small Fruits, Shade and Ornamental Trees,
Shrubs, etc. Opalescent Apples. Western Grown Apple Seedlings.

M McNARY & GAINES, XENIA, OHIO.

We can now make you satis-
factory prices on

Apple and Pear Seedlings.

Write us, we can tell you something that will please you.

N. E. COPELAND, Oakland, Kan.

APPLE We offer for Fall a general assortment of
Apples, 2 and 3 years, 3/4 and up, also 5/8 and
up, in 80 kinds.

PEACH In good assortment 9/16 and up, also 3 to 4
ft. grade.

CALIFORNIA PRIVET 2 and 3
years old.

West Jersey Nurseries

STANTON B. COLE
BRIDGETON, N. J.

We Offer for Fall Large Stock June Bud Peach and Plum

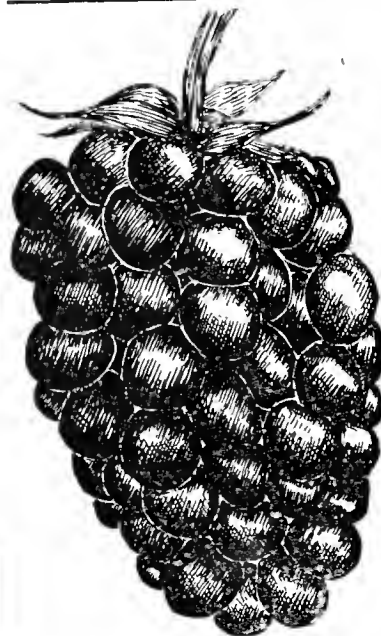
We also offer fine lot of Kansas grown 2-year Apple
of assorted varieties, about 50,000 at very close
prices F. O. B.

50,000 3/16 and up Kansas grown Apple Seedlings.

A nice lot of 1-year Peach and Cherry. Also South-
ern Mountain natural Peach Seed for shipment from
our Nurseries.

Chattanooga Nurseries

CHATTANOOGA, TENN.



STRAWBERRY and **RASPBERRY** plants
of all the new and old sorts in large
or small quantity.

PREMO DEWBERRY. No one can afford
to miss giving this a trial.

ELDORADO, MAXWELL and **ICEBERG**
BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We
have the finest lot of June budded
Peach we ever saw grow, also a
general line of other stock.

MYER & SON,

BRIDGEVILLE, DEL.

AT GRIFFING'S NURSERIES

Budded Pecan Trees

*Japan Persimmon, Japan Walnut, Fig
Trees and Muscadine Grape Vines*

Are leaders to the trade this year.

We also offer a general line of Nursery Stock, including Fruit and
Ornamental Trees, Shubbery, Field-Grown Roses, Etc., Etc.
Prices always right.

THE GRIFFING BROS. CO.

JACKSONVILLE, Fla.



CHASE'S NEW HAMPSHIRE MAID

WOOD LABELS

For Nurserymen and Florists.

BENJAMIN CHASE, - DERRY, N.H.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are
Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 GORTLANDT STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1904, AND SPRING, 1905

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

Clematis! Clematis!

We have a large number of them that must be sold for next Fall delivery. Two-year old field grown, strong, healthy plants. Write for prices that will meet the sharpest competition.

P. W. BUTLER & CO., Penfield, N. Y.

PECAN TREES AND NUTS.

BUDDED, GRAFTED and SEEDLING TREES. Twenty-seven Varieties. Trees in sizes from 6 inches to 6 feet and over. Wholesale and Retail.

ONE, TWO AND THREE YEAR OLD TREES.

A visit to our Groves and Nurseries will interest you. 700 acres in Pecans. Illustrated catalogue sent on application.

The G. M. Bacon Pecan Company, Inc.,
DEWITT, GA.

THE ONLY JOURNAL FOR THE NURSERYMAN.

AN UNEXCELLED ADVERTISING MEDIUM.

A NECESSITY IN EVERY NURSERY OFFICE.

SUBSCRIPTION IN ADVANCE, \$1.00 PER YEAR.

FOREIGN SUBSCRIPTION, IN ADVANCE,
\$1.50 PER YEAR.

Advertising Rates on Application.

The National Nurseryman Publishing Co., Inc.,

205 COX BUILDING,

ROCHESTER, N. Y.

When writing to Advertisers mention The National Nurseryman.

F. N. Stannard & Co.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

DREER SPECIALS

For Fall 1904.

Herbaceous Paeonies.

A large stock of all the leading varieties at correct prices.

Hardy Phlox.

About 150,000 one year field grown plants in stock, the best Standard Varieties can be supplied in unlimited quantity.

Large stocks of all the popular Perennials including

ASTERS.

HEMEROCALLIS,

CAMPANULAS,

HOLLYHOCKS,

COREOPSIS,

POPPIES,

DIANTHUS,

RUDBECKIAS,

DELPHINIUMS,

STOKESIAS,

FUNKIAS,

TRITOMAS,

GAILLARDIAS,

Etc., Etc.

HELIANTHUS,

Special list and prices on Paeonies and Phlox mailed on application.

HENRY A. DREER,

714 Chestnut St, Philadelphia, Pa.

When writing to Advertisers mention The National Nurseryman.

PAEONIES.

TEN THOUSAND PAEONIA ROOTS, named and to color, for sale or exchange for other nursery stock.

E. A. REEVES, Cleveland, Ohio.

The WILLADEAN NURSERIES

Offer a Large and General Assortment
of Stock for Fall 1904.

Special Prices will be made for Early Orders of the Following:

PEACH, APPLE, GRAPES, HYDRANGEAS,
P. G. SNOWBALLS, LILACS, SPIREA
and WEIGELIAS, ORNAMENTALS,
ROSES, FOREST TREE
SEEDLINGS.

TREE SEEDS IN SEASON.

WRITE FOR PRICES.

The Donaldson Co.,

Successors to
Donaldson & Gibson.

WARSAW, KY.

SMALL FRUIT PLANTS

We are now ready to contract for Raspberry
and Blackberry Plants for Fall delivery.

RASPBERRY—Kansas, Cumberland, Gregg, Hop-
kins, Palmer, Reds, Miller, Thwack.

BLACKBERRY—Early Harvest, Snyder.

SEND FOR PRICES.

HOLSINGER BROS.,

ARGENTINE, :: :: KANSAS.

Distinctive Printing

Printing that carries with it style—caste—
a certain eliteness that appeals to discrimi-
nating people.

The National Nurseryman is our work.

We do Printing, Binding, Designing, En-
graving, Embossing, Book Manufacturing—and
do it well.

“GRAPHIC ARTS PRESS.”

John P. Smith Printing Co.

72-74 EXCHANGE ST., ROCHESTER, N. Y.

HOOPEBROS. & THOMAS

Maple Avenue Nurseries,

ESTABLISHED
IN 1853.

WEST CHESTER, PA.

We have to offer for Fall 1904 and Spring 1905
an unusually large stock of healthy, carefully grown

**TREES, SHRUBS,
VINES, ETC.**

Please send us your list of wants for prices.

**North Carolina and Tennessee
Natural Peach Pits.**

JOHN A. YOUNG

Greensboro, N. C.

RAFFIA RED STAR BRAND

THE NURSERYMAN'S GRADE,

When you order the RED STAR BRAND you get the best. Long,
white and strong. Orders for bale (225 lbs.) or more from
stock or larger lots for direct import. Write for prices.

M. Hutchison & Co., 218 Fulton St., New York

FOR SALE

**A Well
Established
Nursery**

Located in a thriving western state,
near city limits, schools and churches.
The stock or grounds can be sold
separate. Consists of over 100 acres,
perfect title, a residence of nine rooms,
with all modern improvements, three cottages, three barns,
office and outbuildings, nearly new in good repair. Best
inexhaustable water in six wells, a most extensive variety
of bearing fruit and ornamental trees. The Nursery trees
are now largely Apples, Peach, Plum and Cherry trees,
Grapes and a most extensive variety of Ornamental Trees
and Shrubs of best kinds. For information address

G c/o NATIONAL NURSERYMAN

GRAPE VINES.

with grade and prices. Write me before placing your order elsewhere.

EUGENE WILLETT,

N. COLLINS, N. Y.

When writing to Advertisers mention The National Nurseryman.

Let us have your list of wants for our
lowest quotations. Our vines are making
a fine growth. We can please you

BRIDGEPORT NURSERIES

For Fall 1904 and Spring 1905

We will have our usual large supply and complete assortment of stock for the TRADE in CAR-LOAD or SMALLER LOTS.

For early orders special prices will be named.

Apple, Pear, Plum, Cherry, and Quince can be shipped from Dansville, New York.

Apple Trees and Apple Seedlings can be shipped from TOPEKA, KANSAS.

From Bridgeport, Indiana, we are prepared to ship a complete assortment of **Hardy Fruit and Ornamental Trees, Plants, Vines, Seedlings, etc.**

Send us your list of wants before placing orders, and we will make you prices.

Personal inspection invited—come and see us.

Spades, the BEST and CHEAPEST. **Excelsior** (baled) the best packing material for either shipping or storage (cheaper and far superior to Moss.)

Box Straps, soft steel.

Our storage and shipping facilities are unsurpassed.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport, Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

Nurseries — Richmond, Va., and Wickham, Hanover Co. Va.

Offer for Fall 1904

California Privet, 1 and 2 yrs. old, Japan Plums on Plum, Cherry, 2 yrs., Peach Seedlings, Large Sugar Maples, Elms, and other Ornamental Stock.

We will have stock of N. C. and Tenn. Natural Peach Pits to offer for September and October.

WE WANT Apple and Pear for early Fall delivery, also Apple Seedlings.

YOUNGERS & CO., Geneva, Neb.

We Offer to the Trade: APPLE SEEDLINGS,
APPLE TREES, PEACH TREES,
AM. PLUM TREES, HEDGE PLANTS,
FOREST TREE SEEDLINGS.

CAR LOTS A SPECIALTY.

We are ready to quote prices on Apple Seedlings for Fall and Winter delivery.

WILL MAKE LOW PRICES FOR EARLY ORDERS.

Our high standard of grading will please.

Our Apple Seedlings are on new land, this being the first crop of nursery stock planted on the soil, which insures healthy plants.

All styles of Root Grafts made to order.

Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

PRELIMINARY OFFER.

Fruit Stocks and Seeds.

If you have not ordered your requirements, do so NOW. Seems early for somethings. It is, but the earlier the better. It may avoid disappointment to do it now, for not infrequently we book sufficient orders to exhaust our supply long before the seed or seedlings are received. Yes, and in some cases, even before we know what the stock will cost us. The probable price does not worry our customers. They know it will be a fair one, or, if not satisfactory, that they have the privilege of cancelling the order.

MAZZARD CHERRY.

Thoroughly tested, ready for shipment. Sample free. Plant now for best results.

MAHALEB MYROBOLAN.

Usually ready for shipment the latter part of September. Sometimes earlier.

Orders booked for the following, subject to your approval of the prices that we shall arrange. APPLE, QUINCE and PEAR SEEDS. APPLE (PARADISE and WESTERN), KIEFFER and FRENCH PEAR, QUINCE, PLUM and CHERRY STOCKS

THOMAS MEEHAN & SONS, Inc.,

Wholesale Nurserymen,

DRESHERTOWN. - Nursery Street, - PENNA.

Red Star Raffia. Fruit Stocks and Seeds.

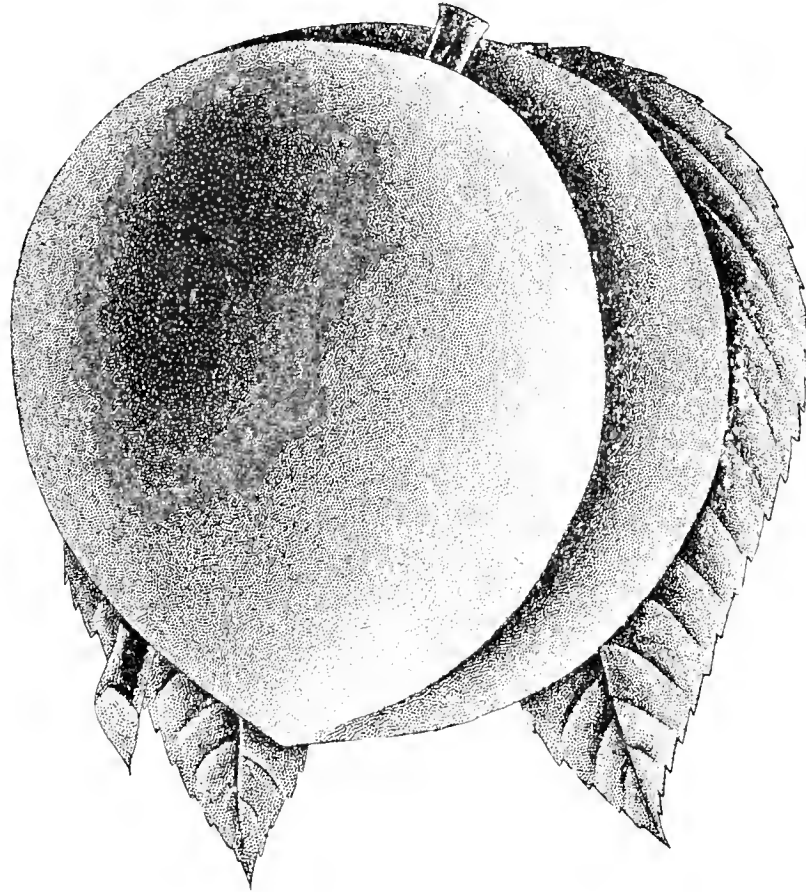
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Buds! Buds! Buds!

PEACH BUDS

FOLLOWING VARIETIES:

Alexander Amsden June
 Ark. Traveller Ark. Beauty
 Bilyer Buston's Oct.
 Barnards Early Beauty B.
 Bequett Free Brandywine
 Belle of Ga. Bokara
 Barber Burke
 Chair's Choice
 Crawford Late Carman
 Crosby Coolridge
 Chilow Connecticut
 Coblér Conklin
 Chinese Cling Champion
 Crawford Early Delaware
 Denton Dover
 Elberta Engle's Mammoth
 Edgemont Early Michigan
 Everbearing
 Eureka
 Easton Cling
 Early Davidson
 Early Toledo
 Early Heath
 Foster
 Fitzgerald
 Francis
 Fox Seedling
 Ford's Late White
 Globe
 Garfield
 Gold Mine
 Gordan
 Geary's Holdon
 Gold Drop
 Hughes
 Heard's Beauty
 Haines Surprise
 Hale's Early
 Holland' Cling
 Holderbaum
 Heidelberg
 Hobson's Choice
 Jennie Worthien
 Jacques R. R.
 Kalamazoo
 Klondike Lewis
 Lodge Lemon Cling
 Levy's Late L. Early York
 Matthews Beauty
 Magnum Bonum
 Mrs. Brett Marshall
 Miss Lolo Mary's Choice
 New Prolific Niagara
 Newington Cling Oscar
 Pearce's Yellow
 Phillips Hortons
 Reeves Favorite
 Red Cheek Melocoton
 Salway
 Smock Cling
 Schumaker
 Shipley's L. Red
 Sunrise Cling
 Steadley
 Scott's Nonpareil
 Switzerland
 Troth's Early
 Van Meteor L. O.
 Victor Wonderful
 William's Favorite Weaver
 Waterloo Wheeler's Late
 Walker's V. Free
 Ward's Late
 Willett
 Wager
 Wilkin's Cling
 W. H. Cling
 Yellow Oct.
 Yellow Ripe



ALSO PEAR, PLUMS and CHERRY BUDS.

GENERAL LIST OF VARIETIES.

HAVE FINE STOCK OF

Peach, Apple and Kieffer Pear

ALL SIZES and GRADES.

WILL QUOTE PRICE ON APPLICATION.

J. G. HARRISON & SONS,

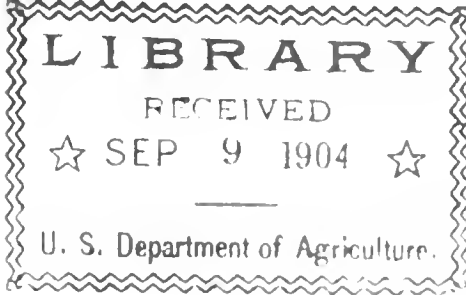
Berlin, Md.

APPLE BUDS

FOLLOWING VARIETIES:

Arkansas Black Alexander
 American Blush
 Amer. Golden Russett
 Albermarle Pippin
 Baldwin Ben Davis
 Bell de Boscoop
 Belmont Bailey's Sweet
 Boken Benona
 Cole Coffelet
 Clark's Orange Chase's Jelly
 Cart House Duchess
 Domine Detroit Red
 Early Pennock
 Esopus Shitzenburg
 Early Colton
 Early Harvest
 Fallwater Flora Bell
 Fourth of July
 Famuese Fall Pippin
 Grimes Golden
 Gano Gen. Grant
 Gravenstein
 Huntsman's Far
 Hubbards Nonsuch
 Haas Hurlburt
 Hyslop Hubbardston
 Iowa Blush Jonathan
 Jersey Sweet
 King
 Kentucky Red Streak
 Kennards Choice
 Legal Tender
 Lowell Loy
 Longfield Lansingburg
 Lawyer
 Lankford Seedlings
 Limber Twig M. B. Twig
 Maiden's Blush Mo. Pippin
 Mc. Intosh Red
 Montreal Beauty
 Milan Mann
 Kinkler Martha
 N. W. Greening
 Newtown Pippin
 Northern Spy
 Nero Ohio Nonpareil
 Porter Price's Sweet
 Pecks Pleasant
 Primate Plum Cider
 Pewaukee R. I. Greening
 Rome Beauty
 Red Astrachan
 Red June Roman Stem
 Rawles Janet
 Rolfe Romanite
 Red Beitingheimer
 Rambo Stark
 Sweet Bough
 Stayman's Winesap
 Summer Rambo
 Sutton's Beauty
 Salome Seek-No-Further
 Starr Shackelford
 Swarr
 Stewart's Golden
 Stark Smith Cider
 Twenty Ounce Pippin
 Talpohocken
 Transcendent
 Tallman Sweet Utters Red
 Virginia Beauty
 Vandevere Pippin Wealthy
 W.W. Pearmain Wolf River
 Whitney Wagner
 Winter Rambo Walbridge
 Winter Blush Wismer
 Willow Twig Winesap
 White June
 York Imperial
 Yellow Transparent
 Yellow Bellflower

1904



September, 1904

NURSERYMEN



Will find the most complete
line of supplies, including

Fruit and Flower Plates

of all kinds, Lithographed and Photo Process

Circulars in colors

Catalogues

Price Lists

and all forms used by Nurserymen constantly in stock

Vredenburg & Co.

228 to 236 South Avenue

Rochester, N. Y.

*The best equipped plant in this country for producing
up-to-date Nursery Catalogues in black or Colors.
Send for Catalogue and Price List. We bind our
books to stay. If you have not tried them, do so.
We are prompt in getting out our orders.*



Painesville Nurseries



OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF NURSERY
AND FLORISTS' STOCK IN THE UNITED STATES, INCLUDING

**Fruit and Nut Trees, Deciduous and Ever-
green Trees and Shrubs, Roses, Hardy Vines
and Plants, Small Fruits and Grape Vines,
Tender Plants, Bulbs and Seeds** ♡ ♡ ♡ ♡

SOME FINE STOCK ON WHICH WE CAN QUOTE LOW RATES IN
**Elms, Willows, Poplars, Philadelphus-Deutzias, Tree and Bush Hy-
drangea, Thunbergs Berberry, Climbing Honeysuckles and Ampe-
lopsiis Veitchii.**

An extra fine lot of **Tree Roses** for fall delivery. Hardy, home-grown **Field
Roses**—largest and best stock in country.

Immense stock of **Grape Vines** and **Small Fruits, Currents, Root-
Cutting Blackberries**, etc., in large assortment of varieties graded right.

Azalias, Palms, Ficus, Araucarias and other Decorative Plants in large
supply. **French, Holland, Japan** and **Bermuda Bulbs**—direct importations
from the best growers.

Pleased to price your list of wants or to show you our stock. Special inducements
for car lots on Fall delivery or stored for Spring shipments. If you have not received
our fiftieth anniversary descriptive catalog, send for it.

Catalogs and Price Lists free.

50 YEARS. 1200 ACRES. 44 GREENHOUSES.

The Storrs & Harrison Co.,
PAINESVILLE, OHIO.

Fay's Currants

TWO YEAR PLANTS,

ALSO

General Nursery Stock

The Finest Collection in America.

Catalogue on Request.

Ellwanger & Barry,

MT. HOPE
NURSERIES

Rochester, N. Y.

A FEW of our SPECIALTIES

ROSES, Crimson Rambler, Dorothy Perkins, H. P's.

AMPELOPSIS VEITCHII, 2 years and 3 years.

CLEMATIS, Leading large flowering varieties.

BERBERIES, Purple-leaved and Thunbergii.

HYDRANGEA PANICULATA GRANDIFLORA, Standards and Bush-form,

HONEYSUCKLES, Climbing and Upright.

JAPAN QUINCE, Large stock, strong plants.

PRIVET, CALIFORNIA, Transplanted, very bushy.

PAEONIAS, Large roots, 40 best varieties.

CURRENTS, GOOSEBERRIES.

Send us list of your wants for quotations.

JACKSON & PERKINS CO.

NEWARK, NEW YORK

THE FRUIT-GROWER

ST. JOSEPH, Mo.

HANDSOMEST FARM
PAPER IN AMERICA
40,000
GUARANTEED FOR 1905

No Circulation Secrets

has been a motto of The Fruit-Grower since the paper was started. The statement below, showing the conservative growth during the past seven years, will give an idea of the substantial character of our circulation. No fake subscription schemes have ever been used, and few names have been added through the medium of premiums. The list has increased solely on the merits of The Fruit-Grower. It is worth the money.

Circulation History

Following is a record of sworn statements of circulation of The Fruit-Grower since the first year of its existence, taken from the American Newspaper Directory:

1897	2,880
1898	5,458
1899	10,000
1900	11,769
1901	16,804
1902	23,287
1903	27,565
1904 (June)	35,150



BROTHER JONATHAN.
(TRADE MARK.)

STATEMENT IN DETAIL FOR JUNE, 1904

Missouri	8,407	New York	1,167	West Virginia	694
Illinois	2,701	First 10 States	23,669	Michigan	606
Kansas	2,144	Nebraska	1,158	Kentucky	580
Iowa	1,797	Tennessee	1,037	Washington	463
Arkansas	1,772	Indiana	998	Massachusetts	351
Pennsylvania	1,509	Virginia	936	First 20 States	31,295
Ohio	1,466	Colorado	779	Miscellaneous	3,855
Oklahoma	1,390	First 15 States	28,601		35,150
Texas	1,346				

AFFIDAVIT

St Joseph, Mo., June 15, 1904

I certify that there were circulated during the first six months of 1904, an average of 31,796 copies of The Fruit-Grower per month, and that the June number comprised 35,150 copies. I also certify that figures quoted above are correct.

W. G. CAMPBELL, Jr., Gen. Mgr.

Rate after Sept. 1, 20c per line, Contract of one inch or more a month for 12 months, to start in October will be accepted at present rate of 15c. For additional information of any character, address

THE FRUIT-GROWER CO., St. Joseph, Mo., 331 South 7th St.

When writing to Advertisers mention The National Nurseryman.

Specialties for Fall

CHERRIES. PLUMS. MULBERRIES.

WALNUS—ENGLISH AND JAPAN. PECANS.

EXOCHORDA. LILACS. LONICERAS.

HYDRANGEAS—Field Grown, Strong.

THOS. HOGG, ROSEA, ETC.

CAMELLIAS, AZALEAS, GARDENIAS, MAGNOLIAS.

HEDGE PLANTS:

AMOR RIVER AND CALIFORNIA PRIVET IN LARGE QUANTITIES.

CITRUS TRIFOLIATA. BERBERIS THUNBERGII. SPIROEA THUNBERGII.

BIOTA AUREA NANA. CEDRUS DEODARA.

LIBOCEDRUS DECURRENS.

JUNIPERS. RETINOSPORAS.

ORANGES, LEMONS AND OTHER CITRUS FRUITS.

300,000 PALMS.

KENTIAS, LATANIAS, PHOENIX.

FIELD GROWN ROSES—Own Roots and Budded.

NO SCALE and Everything Healthy and Well Grown.

P. J. BERCKMANS COMPANY, Inc.

FRUITLAND NURSERIES, AUGUSTA, GA.

Est. 1856

Over 450 Acres in Nursery

When writing to Advertisers mention The National Nurseryman.

Vincennes Nurseries

W. C. REED, VINCENNES, IND.

We offer for Fall of 1904 the following in Car Lots:
Apple 2 and 3 year. Pear Std. and Dwf. Cherry 1 and 2 year. Plum 1 and 2 year; Japan and European. Peach 1 year. Soft Maple, Elm, Box Alder, Ash and Wiers Cut Leaf Maple.

Also Nice Stock of Roses, Shrubs and Small Fruits.
Personal inspection invited.

Black Locust Mulberry

Honey, Locust, Ash, Box Elder, Maple, Catalpa and Elm Seedlings. Asparagus, Rhubarb, Strawberries.

APPLE AND PEAR Seedlings in good supply.

J. A. GAGE,

Beatrice, Neb.

120,000 APPLES

2 and 3 year olds for Fall Delivery in forty varieties, principally Jonathan Ben Davis, Roman Stem, G. G. Pippin, Minkle, N. W. Greening, etc.

Carload lots extremely low price. Send for wholesale list

HOME NURSERY, - - - LaFayette, Illinois
IRVIN INGLE, Proprietor.

The Fraser Nursery

JOHN FRASER, PROP.

HUNTSVILLE, ALA.

I will commence June Budding the end of May. I offer to grow special orders of June buds of PLUM AND PEACH for next fall delivery. I have a complete assortment of varieties true to name.

I ALSO OFFER FOR FALL,
STANDARD PEAR, one and two years. CHERRY, one and two years; PECANS, one and two years; MULBERRYS, one year, large grades; MAGNOLIA GRANDIFLORA, three years; CALIFORNIA PRIVET, one year; MANETTI, MULTIFLORA and MARIANA STOCKS, DWARF BOX, H. P. MOSS, PLANTIER, NEIL and PRAIRIE ROSES.

WRITE FOR PRICES.



ARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of

Beacon Building,

Highlands Nursery, N. C.

BOSTON, MASS.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.

Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

FOR FALL 1904 WE OFFER A GENERAL ASSORTMENT OF WELL GROWN STOCK

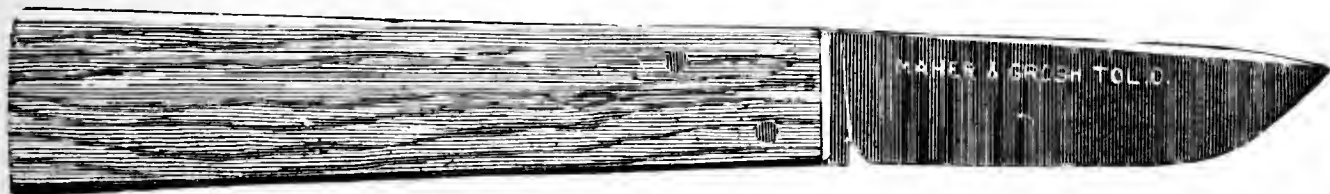
Apple, Pear, Cherry, Plum,

California Privet 1 and 2 year, Asparagus, Osage Orange,

Shade Trees in large sizes, Fine Stock

of Shrubs, Roses, Etc.

Franklin Davis Nursery Co. : BALTIMORE, Md.



BUDDING KNIFE No. 94.

Blades are thin and tempered very hard. Handle is one inch longer than the cut. Sample by mail, 25 cents. 12 by mail \$2 25.
BUDDING KNIFE with folding blade, No. 98. By mail 35 cents; 6 for \$1.75.
GRAFTING KNIFE, 25 cents. Heavy Pock Pruner, 85 cents. Nursery Pruner, riveted in handle, 50 cents, postpaid.
SEND FOR 12-PAGE SPECIAL NURSERY CATALOGUE.

Maher & Grosh Co., 90 A Street, Toledo, Ohio

When writing to Advertisers mention The National Nurseryman.

Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted,

Since 1877 we have been selling the nursery trade, and have over 3,000 nurseries in our list of customers. It is a trade we take great pains to please. We issue an 80-page catalogue of Knives, Shears, Razors and Strops, and send free to all who ask for one.

Fall Bulbs

FOR NURSEYMEN

We make a specialty of this line filling and packing from Tags ready for shipment. Send us an estimate of your wants and let us quote prices.

SPECIAL:

New Silver Ribbon Grass

The finest Ribbon Grass on the market. Perfectly hardy, does not turn green in hot weather and does not run to seed. Sample and prices on application.

James Vick's Sons

ROCHESTER, N. Y.

CURRENT PLANTS

AND

GRAPE VINES

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

Pears! Pears! Pears! BARTLETT PEARS. One two and three year old, as fine as can be grown. Will exchange for Peaches, or sell at a very low figure. Write for prices in car or part car lots.

DAVIS COUNTY NURSERIES,

Harness, Dix & Co., Prop.

35-36 Hooper Bldg, Salt Lake City, Utah.

VICTOR DÉTRICHÉ, ANGERS, FRANCE

Wholesale Grower and Exporter of

Fruit Stocks, Forest and Ornamental Trees, Shrubs and Conifers, Etc.

Advance List for Fruit Stock now ready. Liberal percentage of Mahalab and Mazzard Cherries allowed.

CHAS. F. MEYER,

Sole Agent for the United States and Canada.

99 WARREN STREET, NEW YORK.

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16 GOLDEN MEDALS.

52 SILVER MEDALS.



SHIPMENTS TO ALL COUNTRIES



PAUL HAUBER

Nurseryman

TRAINED FRUIT TREES A SPECIALTY

TOLKEWITZ - DRESDEN, GERMANY

Branch Nursery for Evergreens

Schweizermühle, Königstein.

Correct trained fruit trees in all shapes and in the best kinds fit for this country.

Standard Apple, Pear, Cherry, Plum, Peach and Apricot Trees.



Standard Gooseberries and Currants (3-4 feet high.)

Rose Bushes as well as Standard Roses. Strawberries and Evergreens.



PRICES ON APPLICATION.



ONLY FIRST CLASS QUALITY.

ILLUSTRATED CATALOGS FREE ON REQUEST.

Established 1875

Mount Arbor Nurseries

E. S. WELCH, Proprietor

SHENANDOAH, IOWA

Apple TREES SEEDLINGS GRAFTS

FRUIT TREES AND SMALL FRUITS of every description

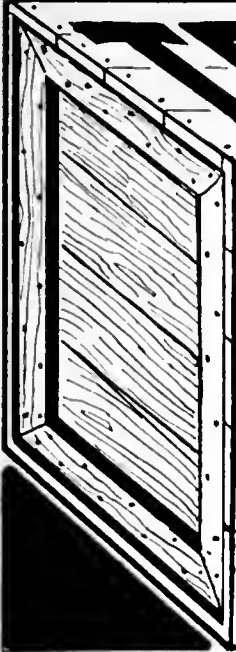
ROSES AND ORNAMENTALS of all kinds

FOREST TREE SEEDLINGS
Immense stock

Extensive Growers. Large Storage Capacity. Improved Shipping Facilities

Your correspondence and inspection invited

When writing to Advertisers mention The National Nurseryman.



TREE BOX LUMBER

Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together?
It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS **GOODWILLIE BROTHERS**
WAUSAU, WIS. 407 New York Life Bldg., Chicago, Ill.

PEONIAS

A very fine collection of over 1,000 distinct named sorts, all of the latest novelties nearly all the older sorts. To be fair and impartial we feel one ought to try all to get the very best. Our list includes nearly a complete list of all growers everywhere—Kelways, Paillets, Lemoinés, Dessert, Terry, etc.

We have an especially fine proven stock of the following: Festiva Maxima, Floral Treasure, Golden Harvest, Marie Lemoine, Whittleyii, Dorchester, Rubra Superba, Tenuifolia, and many others, 1 to 10,000 each.

Personal care given, everything guaranteed true to name. Write for prices.

C. BETSCHER, Peony Specialist

P. S.—I also have a very select stock of
Cannas, Gladioli, Dahlias, Etc.

Canal Dover, Ohio, U. S. A.

The way to go to the
WORLD'S FAIR is via

Wabash R. R.

The only line landing passengers
at the main gate of the

LOUISIANA PURCHASE EXPOSITION St. Louis, Mo.

TRAINS LEAVE BUFFALO DAILY

2:00 a. m., 8:15 a. m., 1:30 p. m., 8:30 p. m.

ARRIVES WORLD'S FAIR STATION

7:01 p. m., 7:19 a. m., 7:50 a. m., 1:31 p. m.

ARRIVING UNION STATION

7:15 p. m., 7:33 a. m., 8:04 a. m., 2:00 p. m.

Season Tickets, \$28.40 60 Day Tickets, \$23.70
15 Day Tickets, \$19.75

Coach Tickets good one week (sold Tuesdays and
Thursdays) \$14.00

Pullman's Newest Type of Sleepers. Electric Lighted Chair
Cars (Seats Free.) Wabash Dining Cars.

Ticket Office, 287 Main Street
ELLICOTT SQUARE.

C. S. CRANE,
Gen'l Pass. and Ticket Agt.
ST. LOUIS, MO.

R. F. KELLY,
Gen'l Agt. Pass. Dept.,
BUFFALO, N. Y.

JAMES GASS, N. Y. S. P. A.

When writing to Advertisers mention The National Nurseryman.

THE

Geneva Nursery

Established in 1846.

Headquarters for :

ORNAMENTAL TREES—Birch, Elms, Horse Chestnut,
Norway and Sugar Maple, Lindens, Poplars, Magnolias,
EVERGREENS.

Superb Collection of :

SHRUBS—Upright, Climbing and Standard.

ROSES—Hardy Dwarf, Tea, Climbing, Rambler, Tree.

RHODODENDRONS — Ponticum, Catawbiense, Named
Hybrids.

PAEONIAS—Large Assortment, Named Varieties.

DAHLIAS—New Cactus, Large Flowering, Ponpon.

full Assortment in :

Apples, Pears, Plums, Cherries and Quinces, CURRANTS
GOOSEBERRIES, RASPBERRIES.

We give special attention to Dealers' complete lists.

Fall trade list on application.

W. & T. Smith Co., GENEVA,
NEW YORK.

When writing to Advertisers mention The National Nurseryman.

Nurseries For Sale

Have made 7 to 10 per cent. for years.

Have ONE OF THE LARGEST FORCES OF SALESMEN.

Have a large stock and splendid blocks of young growing Fruit Trees, Plants, and a very complete line of ornamentals.

Have splendid up-to-date management in office and field.

Have best of facilities.

Owing to the enforced retirement of two of the Company they desire to sell.

Cash or a good note will be accepted.

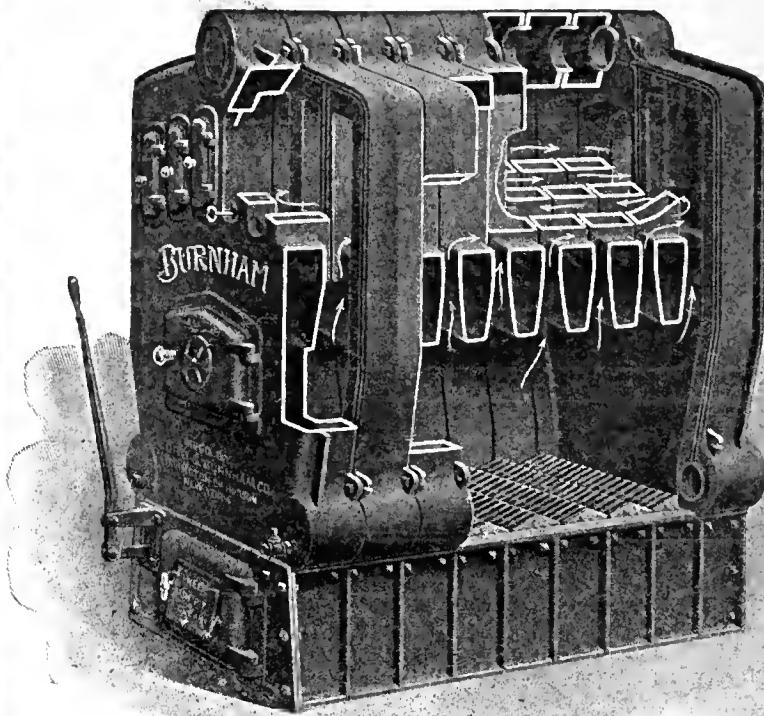
7 to 10 per cent. on your investment, besides **\$10,000 to \$25,000 made by purchaser.**

Apply to "MUTUAL"

care of *National Nurseryman*

Use "Burnham" Boilers AND REDUCE YOUR COAL BILL

YOU WANT PROFITS which continue to grow. The reasons why "BURNHAM" BOILERS will save coal for you is that there is a large combustion chamber, also a large active fire surface for each square foot of grate. They heat easily, quickly, efficiently. It takes but a short time to set up one of these boilers.



Write to-day to our New York office for our catalogue of Greenhouse Construction and Heating and Ventilating Catalogue, sending 10 cents for postage, 5 cents each.

LORD & BURNHAM COMPANY

New York Office:
ST. JAMES BLDG. 7139 BROADWAY

General Office and Works:
IRVINGTON-ON-HUDSON, N. Y.

I Was in it Last Year--The Great May Flood

I Am in it This Year--The Seedling Trade.

Come and See Me.

Write for Prices on both

Apple and Japan Pear Seedling

I have a large stock of both French and American Apple Seedlings to offer the trade.

I also offer for the Fall of 1904 and Spring of 1905 a fine lot of . . .

1 and 2 Year Apple

Won't You Kindly Divide Your Orders with me. It will do us Both Good

A. L. BROOKE, PROP.,

North Topeka Nurseries

North Topeka and - - Grantville, Kansas

When writing to Advertisers mention The National Nurseryman.

Peters & Skinner

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS

HAVE TO OFFER

Apple Seedling Pear Seedling

Apple, Peach and Cherry Trees

Keiffer Pear

Bechtel's Double Flowering Crab

Grape Vines Flowering Shrubs

Shade Trees

When writing to Advertisers mention The National Nurseryman.

A BARGAIN

In STANDARD PEARS, extra size, 6 to 7 ft; 1 inch and up 5 to 6 ft; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere.

Address

Pioneer Nurseries Company,
— Salt Lake City, Utah, —

PEACH SEED.

CROP OF 1904

Crop is not a full one but we will have a fair supply.
Write for particulars.

We have the following Apples in surplus
and will make quotation on application.

BEN DAVIS, YORK IMPERIAL, STAYMANS,
ALB. PIPPIN, FALLAWATER, ROME
BEAUTY, REAGAN, LIMBERTWIG,
SPRINGDALE, TRADERS FANCY,
GRIMES AND VA. BEAUTY.

J. Van Lindley Nursery Co.,
POMONA HILL NURSERIES,
POMONA, N. C.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

GULF GYPRESS Greenhouse Material

CUT AND SPLICED READY FOR ERECTION
Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus



GLASS at Wholesale

Try our Seal Tight Liquid Putty
Sample Gallon, 75 cents

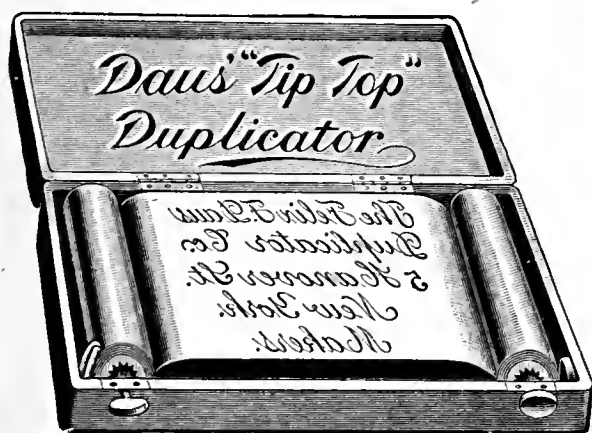
S. JACOBS & SONS

MANUFACTURERS

1365 to 1373 Flushing Avenue
BROOKLYN, N. Y.

We furnish everything for building.
Send for prices and catalogue

CALIFORNIA PRIVET, FINE ONE YEAR
LOMBARDY POPLARS, 10 TO 16 FT.
PEACH TREES, FINE STOCK
ALL MY OWN GROWING.
JOSIAH A. ROBERTS
MALVERN, PA.



13 in.,) \$7.50, subject to the trade discount of 33½ per cent.—\$5.00 NET.

FELIX A. M. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

What Is Daus' Tip-Top?

TO PROVE that Daus' "Tip-Top" Duplicator is the best
simplest, and cheapest device for making

100 copies from Pen-written and 50 copies from Type-written original

we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial if you
mention The National Nurseryman.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of
23 year's experience in Duplicators. Price for complete apparatus, cap size (prints 8½ in. by

WOOD LABELS OF EVERY DESCRIPTION

For Nurserymen and Florists

DAYTON FRUIT TREE LABEL Co.

South Canal Street, Dayton, Ohio

When writing to Advertisers mention The National Nurseryman.

4,000,000 PEACH TREES

SIDE LINE

300,000
2 Year Apple
Assorted Varieties.

100,000
1 Year Kieffer Pear

100,000
Assorted Cherry
1 Year Buds.

50,000
1 Year Plum

50,000
June Budded Plum

See me or write for prices before you place your order.

TENNESSEE WHOLESALE NURSERIES

WINCHESTER, TENN.
J. C. HALE, Prop.

Largest Stock of Peach in the United States

JUNE BUDS A SPECIALTY

Am now ready to book orders for delivery, Fall 1904 and Spring 1905.

BOX STRAPS. Uncut Lengths. 28 in. and 63 in. SHORTER LENGTHS TO ORDER.

Soft tough strip steel. Can drive a nail through the Straps without previous punching. Cheapest and best Straps for Nurserymen on the U. S. market. Write for sample and prices.

References—Nurserymen Generally.

WARD-DICKEY STEEL CO.,

Manufacturers of
PLANISHED SHEET STEEL.

Indiana Harbor, Ind.

FREDONIA GROWN GRAPE VINES Known the world over.

All standard varieties, warranted true, grade unsurpassed. Immense stock, 1 and 2 years. Fine stock Currants, Cherries, Pears, Plums, Etc. All orders large or small cared for in a substantial manner. Give us a trial order. *Send list of wants for prices.*

FOSTER & GRIFFITH, FREDONIA, N. Y.

POTS! POTS! POTS!

We are manufacturers of **Standard Flower Pots** equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY, 213-23 Pearl Street
NORRISTOWN, PA.

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS** ❁ ❁ ❁ ❁

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON, CHATENAY SEINE,
FRANCE

GROWER AND EXPORTER OF

**French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc. Fruit Tree Stocks.**

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

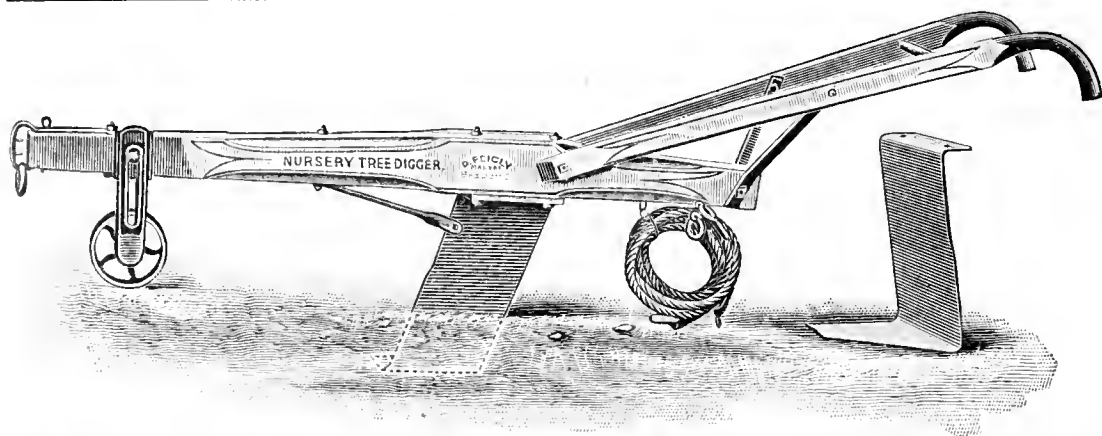
The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

WE MAKE A SPECIALTY OF GROWING
Catalpas, Tree and Shrub Seeds, Russian Mulberry, Red Bud, Green Ash, Box Elder, Sweet Gum, American Persimmon, Walnuts, Birches, Beeches, Sycamores, Altheas, Lindens, and a general line of nursery-grown and Collected Seedlings for Nurserymen's planting.

It will pay you to get my prices before ordering elsewhere.

FOREST NURSERY & SEED CO.
Irving College, Tenn., Warren County.



THE IMPROVED FEIGLY DIGGER

**A Money Saving Tool
for Nurserymen.**

MANUFACTURED BY

D. FEIGLY, Medway, O. Sole Agent. *Send for Circular.*

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE

FILS AINE, USSY CALVADOS. FRANCE

Grower and Shipper of Nursery Stock

Ornamentals, Trees and Shrubs; Evergreens, Conifers.
Forest Trees, for Spring or Fall shipment.

Send for estimates to our sole American agents,

AUGUST RÖLKER & SONS,

P. O. Box 752.

31 BARCLAY STREET, NEW YORK

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS.

RAFFIA FIBRE in Prime Nurserymen's Quality.

XENIA STAR NURSERIES.

Submit your want list, (actual or estimated) for special prices on

Apple, Pear, Cherry, Plum, Peach,

Also Grape Vines, Small Fruits, Shade and Ornamental Trees, Shrubs, etc. Opalescent Apples. Western Grown Apple Seedlings.

M McNARY & GAINES, XENIA, OHIO.

We can now make you satisfactory prices on **Apple and Pear Seedlings.**

Write us, we can tell you something that will please you.

N. E. COPELAND, Oakland, Kan.

APPLE We offer for Fall a general assortment of Apples, 2 and 3 years, 3, 4 and up, also 5/8 and up, in 80 kinds.

PEACH In good assortment 9, 16 and up, also 3 to 4 ft. grade.

CALIFORNIA PRIVET 2 and 3 years old.

West Jersey Nurseries

STANTON B. COLE

BRIDGETON, N. J.

We Offer for Fall Large Stock June Bud Peach and Plum

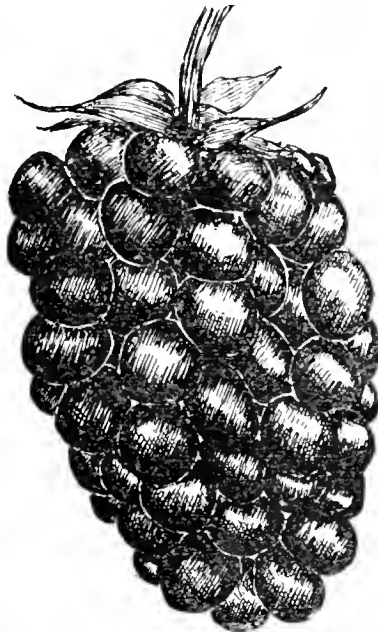
We also offer fine lot of Kansas grown 2-year Apple of assorted varieties, about 50,000 at very close prices F. O. B.

50,000 3 16 and up Kansas grown Apple Seedlings.

A nice lot of 1-year Peach and Cherry. Also Southern Mountain natural Peach Seed for shipment from our Nurseries.

Chattanooga Nurseries

CHATTANOOGA, TENN.



STRAWBERRY and RASPBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,

BRIDGEVILLE, DEL.

AT GRIFFING'S NURSERIES

Budded Pecan Trees

Japan Persimmon, Japan Walnut, Fig Trees and Muscadine Grape Vines

Are leaders to the trade this year.

We also offer a general line of Nursery Stock, including Fruit and Ornamental Trees, Shubbery, Field-Grown Roses, Etc., Etc. Prices always right.

THE GRIFFING BROS. CO.

JACKSONVILLE, Fla.



CHASE'S NEW HAMPSHIRE MAID

WOOD LABELS

For Nurserymen and Florists.

BENJAMIN CHASE,

DERRY, N.H.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Growers of the Most Complete Line of Nursery Stock in France. Best grading, quality and packing. When you buy of us you deal with first hands. We are Growers. If you have not yet bought of us, give us a trial. Send your list of wants to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for United States and Canada.

39 AND 41 CORTLANDT STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1904, AND SPRING, 1905

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

Clematis! Clematis!

We have a large number of them that must be sold for next Fall delivery. Two-year old field grown, strong, healthy plants. Write for prices that will meet the sharpest competition.

P. W. BUTLER & CO., Penfield, N. Y.

PECAN TREES AND NUTS.

BUDDED, GRAFTED and SEEDLING TREES. Twenty-seven Varieties. Trees in sizes from 6 inches to 6 feet and over. Wholesale and Retail.

ONE, TWO AND THREE YEAR OLD TREES.

A visit to our Groves and Nurseries will interest you. 700 acres in Pecans. Illustrated catalogue sent on application.

The G. M. Bacon Pecan Company, Inc.,
DEWITT, GA.

1851

KNOX NURSERIES

1904

We offer for Fall of 1904 a large number of our well known ONE YEAR CHERRY, two year Cherry, Peach, Apple and a general line. Also have a lot of Fine Norway Spruce 2-3 ft. Will make Special Inducements for early orders of Cherry and Peach. Personal inspection invited. Correspondence solicited.

H. M. SIMPSON & SONS,
VINCENNES, IND.

When writing to Advertisers mention The National Nurseryman.

F. N. Stannard & Co.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

DREER SPECIALS

For Fall 1904.

Herbaceous Paeonies.

A large stock of all the leading varieties at correct prices.

Hardy Phlox.

About 150,000 one year field grown plants in stock, the best Standard Varieties can be supplied in unlimited quantity.

Large stocks of all the popular Perennials including

ASTERS,
CAMPANULAS,
COREOPSIS,
DIANTHUS,
DELPHINIUMS,
FUNKIAS,
GAILLARDIAS,
HELIANTHUS,

HEMEROCALLIS,
HOLLYHOCKS,
POPPIES,
RUDBECKIAS,
STOKESIAS,
TRITOMAS,
Etc., Etc.

Special list and prices on Paeonies and Phlox mailed on application.

HENRY A. DREER,
714 Chestnut St., Philadelphia, Pa.

When writing to Advertisers mention The National Nurseryman.

300,000 Surplus in Peaches.
100,000 in Leading Plums on Peach and Mariana. 15,000 Apricots. All one year old, on new prairie land. Absolutely healthy. Write for trade list and retail catalog giving descriptions of new fruits. There is something in it.

F. T. RAMSEY,
Austin Nursery. Austin, Texas.

The WILLADEAN NURSERIES

Offer a Large and General Assortment
of Stock for Fall 1904.

Special Prices will be made for Early Orders of the Following:

PEACH, APPLE, GRAPES, HYDRANGEAS,
P. G. SNOWBALLS, LILACS, SPIREA
and WEIGELIAS, ORNAMENTALS,
ROSES, FOREST TREE
SEEDLINGS.

TREE SEEDS IN SEASON. WRITE FOR PRICE S.

The Donaldson Co.,
Successors to Donaldson & Gibson. WARSAW, KY.

SMALL FRUIT PLANTS

We are now ready to contract for Raspberry and Blackberry Plants for Fall delivery.

RASPBERRY—Kansas, Cumberland, Gregg, Hopkins, Palmer, Reds, Miller, Thwack.

BLACKBERRY—Early Harvest, Snyder.

SEND FOR PRICES.

HOLSINGER BROS.,
ARGENTINE, :: :: KANSAS.

Currant Cuttings and Gooseberry Layers

We have a very choice lot of the following Cuttings and Layers that we can quote a special low price for during September and October.

VARIETIES CURRANTS—Fays, Cherry, White Grape, North Star, Victoria, Versailles, Red Dutch, Red Cross, Wilder, London Market.

200,000 Houghton Gooseberry Rooted Layers

We have practically "Everything in Small Fruit Plants" at prices as low as good plants can be grown, we offer

IN NOVELTIES—Jap, Wineberry, Loganberry, Strawberry, Raspberry, Earhart Everbearing Rby, Rocky Mountain Cherry, White Blackberries, Tree Currants, Etc.

Our New Price List from "The Home of Small Fruits" will be mailed free Write us your wants.

W. N. SCARFF, - - - Newcastle, Ohio

HOOPES BRO. & THOMAS
Maple Avenue Nurseries,
ESTABLISHED IN 1853.
WEST CHESTER, PA.

We have to offer for Fall 1904 and Spring 1905 an unusually large stock of healthy, carefully grown

**TREES, SHRUBS,
VINES, ETC.**

Please send us your list of wants for prices.

KANSAS CITY NURSERIES

A GENERAL LINE OF NURSERY
STOCK, WHOLESALE AND RETAIL

GRAPE VINES, a heavy stock of Concord and Moore's Early One and Two years; Worden, Niagara, &c., One year. Small fruits—Rhubarb, Asparagus, Ornamental Shrubs, Cal. Privet, &c.

We publish the best and cheapest 80 page Co-operative Illustrated Descriptive Catalogue in the market, of which we have just issued a new edition.

This is the great Railroad Center of the West, and we can ship direct to almost any point without transfers.

BLAIR & KAUFMAN, = Kansas City, Mo.
Office: 233-34 Rialto Building.

RAFFIA RED STAR BRAND

THE NURSERYMAN'S GRADE,

When you order the RED STAR BRAND you get the best. Long, white and strong. Orders for bale (225 lbs.) or more from stock or larger lots for direct import. Write for prices.

M. Hutchison & Co., 218 Fulton St., New York

We offer for Fall 1904 and Spring 1905
A FULL ASSORTMENT OF

Roses and Ornamental Shrubs

ALL FIELD GROWN.

Special inducements to those buying in large quantities

We make the growing of Roses a specialty and can take care of any size order of the leading sorts of H. P.; Tea; Hybrid Tea; Prairies; Mosses, Etc., Privet; Philadelphus; Althaea and Spirea. Send for Wholesale List.

The United States Nursery Co.

RICH, COAHOMA COUNTY, MISS.

GRAPE VINES.

with grade and prices. Write me before placing your order elsewhere.

EUGENE WILLETT,

N. COLLINS, N. Y.

When writing to Advertisers mention The National Nurseryman.

Let us have your list of wants for our lowest quotations. Our vines are making a fine growth. We can please you

STANDARDS STANDARDS Of Currants and Gooseberries

Straight Stems 3-4 ft. high, grafted on Ribes.
Strong Heads. Best Varieties.

Also
Roses, Standards correct trimmed
Fruit Trees, Etc.

Please write and get my prices before ordering
elsewhere.

B. Muellerklein's Nurseries
Karlstadt (near Frankfort Murin, Germany)

The L. Green & Son Co.

PERRY, LAKE CO., OHIO

Offer to the trade a very complete assortment of

Nursery and Landscape Gardener's Stock

IN SURPLUS—

American Sweet Chestnut, 4 to 5 ft., 5 to 6 ft. and 6 to 8 ft.

Carolina Poplar, all sizes, and other Deciduous Trees.

Nice line of Shrubs, Herbaceous and Perennial Plants.

Please send us your want list as well as your surplus.

Headquarters for—

BUDDED APPLE

PEACH TREES

Carolina Poplar

GRAPE VINES, ETC.

Send us your list of wants.

Central Michigan Nursery, Kalamazoo, Mich.

Experienced Nurseryman

wishes office position with large wholesale firm; knows the business; wholesale and retail, mail order and agency; prefers to take entire charge of office or of some department, such as correspondence, or sales, or collections; has had long experience in the business and is well known to the trade; at present holds responsible position with good firm, but can give satisfactory reasons for desiring to change; can furnish highest references; salary expected to be in proportion to responsibility and efficiency; to the firm needing a business man of experience in their office, the advertiser can render valuable service.

Address: "Experienced", care of this paper.

BRIDGEPORT NURSERIES

For Fall 1904 and Spring 1905

We will have our usual large supply and complete assortment of stock for the TRADE in CAR-LOAD or SMALLER LOTS.

For early orders special prices will be named.

Apple, Pear, Plum, Cherry, and Quince can be shipped from Dansville, New York.

Apple Trees and **Apple Seedlings** can be shipped from TOPEKA, KANSAS.

From Bridgeport, Indiana, we are prepared to ship a complete assortment of **Hardy Fruit** and **Ornamental Trees, Plants, Vines, Seedlings, etc.**

Send us your list of wants before placing orders, and we will make you prices.

Personal inspection invited—come and see us.

Spades, the BEST and CHEAPEST. **Excelsior** (baled) the best packing material for either shipping or storage (cheaper and far superior to Moss.)

Box Straps, soft steel.

Our storage and shipping facilities are unsurpassed.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport, Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

Nurseries — Richmond, Va., and Wickham, Hanover Co. Va.

Offer for Fall 1904

California Privet, 1 and 2 yrs. old, Japan Plums on Plum, Cherry, 2 yrs., Peach Seedlings, Large Sugar Maples, Elms, and other Ornamental Stock.

We will have stock of N. C. and Tenn. Natural Peach Pits to offer for September and October.

WE WANT Apple and Pear for early Fall delivery, also Apple Seedlings.

YOUNGERS & CO., Geneva, Neb.

We Offer to the Trade: APPLE SEEDLINGS,
APPLE TREES, PEACH TREES,
AM. PLUM TREES, HEDGE PLANTS,
FOREST TREE SEEDLINGS.

CAR LOTS A SPECIALTY.

We are ready to quote prices on Apple Seedlings for Fall and Winter delivery.

WILL MAKE LOW PRICES FOR EARLY ORDERS.

Our high standard of grading will please.

Our Apple Seedlings are on new land, this being the first crop of nursery stock planted on the soil, which insures healthy plants.

All styles of Root Grafts made to order.

Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

PRELIMINARY OFFER.

Fruit Stocks and Seeds.

If you have not ordered your requirements, do so NOW. Seems early for somethings. It is, but the earlier the better. It may avoid disappointment to do it now, for not infrequently we book sufficient orders to exhaust our supply long before the seed or seedlings are received. Yes, and in some cases, even before we know what the stock will cost us. The probable price does not worry our customers. They know it will be a fair one, or, if not satisfactory, that they have the privilege of cancelling the order.

MAZZARD CHERRY.

Thoroughly tested, ready for shipment. Sample free. Plant now for best results.

MAHALEB MYROBOLAN.

Usually ready for shipment the latter part of September. Sometimes earlier.

Orders booked for the following, subject to your approval of the prices that we shall arrange. APPLE, QUINCE and PEAR SEEDS. APPLE (PARADISE and WESTERN), KIEFFER and FRENCH PEAR, QUINCE, PLUM and CHERRY STOCKS.

THOMAS MEEHAN & SONS, Inc.,

Wholesale Nurserymen,

DRESHERTOWN. - Nursery Street, - PENNA.

Red Star Raffia. Fruit Stocks and Seeds.

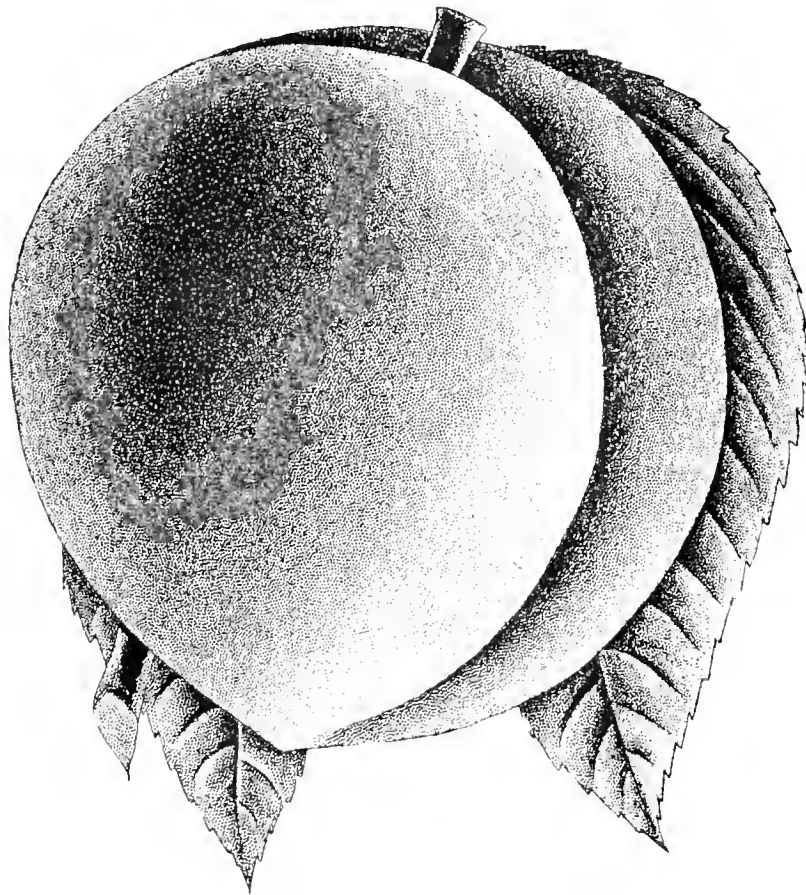
When writing to Advertisers mention The National Nurseryman.

Buds! Buds! Buds!

PEACH BUDS

FOLLOWING VARIETIES:

Alexander Ausden June
Ark. Traveller Ark. Beauty
Bilyer Buston's Oct.
Barnards Early Beauty B.
Bequett Free Brandywine
Belle of Ga. Bokara
Barber Burke
Chair's Choice
Crawford Late Carman
Crosbey Coolridge
Chilow Connecticut
Cobler Conklin
Chinese Cling Champion
Crawford Early Delaware
Denton Dover
Elberta Engle's Mammoth
Edgemont Early Michigan
Everbearing
Eureka
Easton Cling
Early Davidson
Early Toledo
Early Heath
Foster
Fitzgerald
Francis
Fox Seedling
Ford's Late White
Globe
Garfield
Gold Mine
Gordan
Geary's Holden
Gold Drop
Hughes
Heard's Beauty
Haines Surprise
Hale's Early
Holland' Cling
Holderbaum
Heidelberg
Hobson's Choice
Jennie Worthien
Jacques R. R.
Kalamazoo
Klondike Lewis
Lodge Lemon Cling
Levy's Late L. Early York
Matthews Beauty
Magnum Bonum
Mrs. Brett Marshall
Miss Lolo Mary's Choice
New Prolific Niagara
Newington Cling Oscar
Pearce's Yellow
Phillips Hortons
Reeves Favorite
Red Cheek Melocton
Salway
Smock Cling
Schumaker
Shipley's L. Red
Sunrise Cling
Steadley
Scott's Nonpareil
Switzerland
Troth's Early
Van Meteor L. O.
Victor Wonderful
William's Favorite Weaver
Waterloo Wheeler's Late
Walker's V. Free
Ward's Late
Willett
Wager
Wilkin's Cling
W. H. Cling
Yellow Oct.
Yellow Ripe



APPLE BUDS

FOLLOWING VARIETIES:

Arkansas Black Alexander
American Blush
Amer. Golden Russett
Albemarle Pippin
Baldwin Ben Davis
Bell de Boscoop
Belmont Bailey's Sweet
Boken Benona
Cole Coffelet
Clark's Orange Chase's Jelly
Cart House Duchess
Dominine Detroit Red
Early Pennock
Esopus Slutzenburg
Early Colton
Early Harvest
Fallwater Flora Bell
Fourth of July
Famuese Fall Pippin
Grimes Golden
Gano Gen. Grant
Gravenstein
Huntsman's Far
Hubbards Nonsuch
Haas Hurlburt
Hyslop Hubbardston
Iowa Blush Jonathan
Jersey Sweet
King
Kentucky Red Streak
Kennards Choice
Legal Tender
Lowell Loy
Longfield Lansingburg
Lawyer
Lankford Seedlings
Lumber Twig M. B. Twig
Maiden's Blush Mo. Pippin
Mc. Intosh Red
Montreal Beauty
Milan Mann
Kinkler Martha
N. W. Greening
Newtown Pippin
Northern Spy
Nero Olio Nonpareil
Porter Price's Sweet
Pecks Pleasant
Primate Plum Cider
Pewaukee R. I. Greening
Rome Beauty
Red Astrachan
Red June Roman Stem
Rawles Janet
Rolfe Romanite
Red Beitingheimer
Rambo Stark
Sweet Bough
Stayman's Winesap
Summer Rambo
Sutton's Beauty
Salome Seek-No-Further
Starr Shackelford
Swarr
Stewart's Golden
Stark Smith Cider
Twenty Ounce Pippin
Talpelocken
Transcendent
Tallman Sweet Utters Red
Virginia Beauty
Vandevere Pippin Wealthy
W.W. Pearmain Wolf River
Whitney Wagner
Winter Rambo Walbridge
Winter Blush Wismer
Willow Twig Winesap
White June
York Imperial
Yellow Transparent
Yellow Bellflower

ALSO PEAR, PLUMS and CHERRY BUDS.

GENERAL LIST OF VARIETIES.

HAVE FINE STOCK OF

Peach, Apple and Kieffer Pear

ALL SIZES and GRADES.

WILL QUOTE PRICE ON APPLICATION.

J. G. HARRISON & SONS,

Berlin, Md.

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U. S. Department of Agriculture.



October, 1904

Homes in the South

There are in the Southern States awaiting development, thousands of acres of uncultivated farm lands in tracts of all sizes, which can be purchased very cheaply. They are productive, healthy, and close to good markets. In ten States reached by the lines of the

Southern Railway

For information about opportunities now available, prices of land, character of soils, etc., write to

M. V. RICHARDS

Land and Industrial Agent

Washington, D. C., Southern R'y

MAIL US A LIST OF YOUR FALL OR SPRING WANTS

We can furnish in carload lots. Shipments can be made promptly.

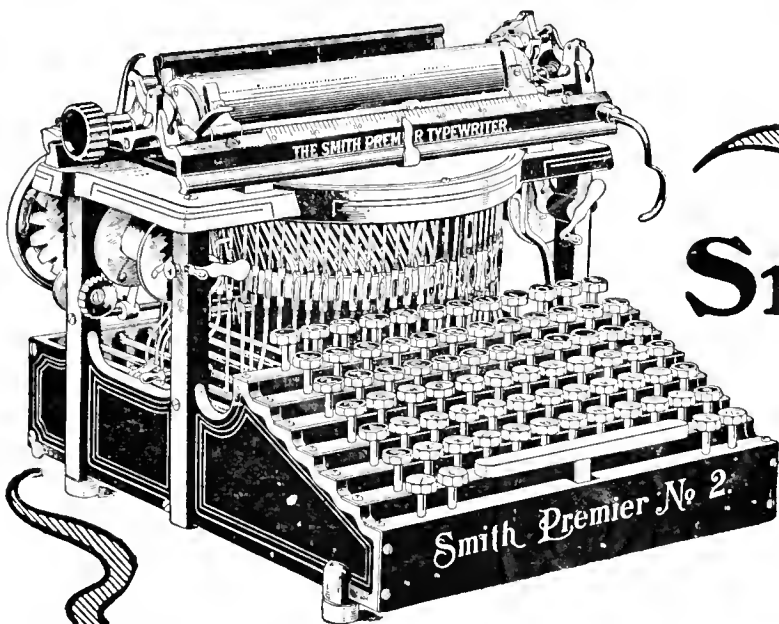
Well graded Apple 3/4 and up
Peach 9/16 and up
Pear 3/4 and up
Plum 3/4 and up; in fact a

General Line of Nursery Stock

We guarantee satisfaction
Our trade-list will be ready August 15th.

SOUTHERN NURSERY CO.

WINCHESTER, TENN.



The Smith Premier

is the simplest and strongest of all writing machines. It does better work, does it quicker, lasts longer, and costs less in the long run than any other typewriting machine. It is

The World's Best Typewriter

Let us send you our little book telling all about it

When you want a competent stenographer (male or female) to operate any make of machine, call up

Our Employment Department

We furnish them promptly. We save you time and trouble. We carefully examine all applicants. We select to meet your requirements. No charge to either party. We have operators with the combined qualifications of stenographer, typewriter and bookkeeper, also expert telegraphers.

Let us know exactly what you want, and we will meet your requirements without delay.

The Smith Premier Typewriter Company

36 Exchange Street

ROCHESTER, N. Y.

Painesville Nurseries

OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF NURSERY
AND FLORISTS' STOCK IN THE UNITED STATES, INCLUDING

**Fruit and Nut Trees, Deciduous and Ever-
green Trees and Shrubs, Roses, Hardy Vines
and Plants, Small Fruits and Grape Vines,
Tender Plants, Bulbs and Seeds** ♀ ♀ ♀ ♀

SOME FINE STOCK ON WHICH WE CAN QUOTE LOW RATES IN
**Elms, Willows, Poplars, Philadelphus-Deutzias, Tree and Bush Hy-
drangea, Thunbergs Berberry, Climbing Honeysuckles and Ampe-
loopsis Veitchii.**

An extra fine lot of **Tree Roses** for fall delivery. Hardy, home-grown **Field
Roses**—largest and best stock in country.

Immense stock of **Grape Vines** and **Small Fruits, Currents, Root-
Cutting Blackberries**, etc., in large assortment of varieties graded right.

Azalias, Palms, Ficus, Araucarias and other Decorative Plants in large
supply. **French, Holland, Japan** and **Bermuda Bulbs**—direct importations
from the best growers.

Pleased to price your list of wants or to show you our stock. Special inducements
for car lots on Fall delivery or stored for Spring shipments. If you have not received
our fiftieth anniversary descriptive catalog, send for it.

Catalogs and Price Lists free.

50 YEARS. 1200 ACRES. 44 GREENHOUSES.

The Storrs & Harrison Co.,
PAINESVILLE, OHIO.

Fay's Currants

TWO YEAR PLANTS,

ALSO

General Nursery Stock

The Finest Collection in America.

Catalogue on Request.

Ellwanger & Barry,

MT. HOPE
NURSERIES

Rochester, N. Y.

40,000 FRUIT FARMERS

Are good customers for nurserymen. No need to waste time and money to convince them that they ought to plant fruit trees and plants—they are already interested in this work.

THE FRUIT-GROWER

ST. JOSEPH, MO.

circulates 40,000 papers every month among this desirable class customers. Every reader grows fruit. For nursery advertising, therefore, The Fruit-Grower is the best advertising medium in the country because it has no waste circulation, and the circulation is guaranteed

Advertising Rate, 20c. Line; \$2.80 Inch.

It would cost a nurseryman \$400.00 for postage alone to send circulars to 40,000 fruit farmers; to this must be added the cost of printing, etc., to say nothing of the expense of securing this many good names.

The Fruit-Grower will place your advertisement before this number of desirable customers for \$2.80 per inch, or a full page, (9x14 inches, for \$120. Where else can you get such cheap, effective advertising?

Remember the special issues of the Fruit Grower: January, 1905, "Anniversary Number;" February, "Spraying;" March, "Gardening;" April, "Small Fruits;"—the best papers ever printed. Commencing with October issue, all states East of Ohio will receive our EASTERN EDITION. Send copy for your advertisement today.

THE FRUIT-GROWER CO.

331 S. SEVENTH ST.,

ST. JOSEPH, MO



BROTHER JONATHAN—Trade Mark.

When writing to Advertisers mention The National Nurseryman.

A FEW of our SPECIALTIES

ROSES, Crimson Rambler, Dorothy Perkins, H. P's

AMPELOPSIS VEITCHII, 2 years and 3 years.

CLEMATIS, Leading large flowering varieties.

BERBERRIES, Purple-leaved and Thunbergii.

HYDRANGEA PANICULATA GRANDIFLORA, Standards and Bush-form.

HONEYSUCKLES, Climbing and Upright.

JAPAN QUINCE, Large stock, strong plants.

PRIVET, CALIFORNIA, Transplanted, very bushy.

PAEONIAS, Large roots, 40 best varieties.

Send us list of your wants for quotations.

JACKSON & PERKINS CO.

NEWARK, NEW YORK

Specialties for Fall

CHERRIES. PLUMS. MULBERRIES.
WALNUS—ENGLISH AND JAPAN. PECANS.

EXOCHORDA. LILACS. LONICERAS.

HYDRANGEAS—Field Grown, Strong.

THOS. HOGG, ROSEA, ETC.

CAMELLIAS, AZALEAS, GARDENIAS, MAGNOLIAS.

HEDGE PLANTS:

CALIFORNIA PRIVET IN LARGE QUANTITIES.

CITRUS TRIFOLIATA. BERBERIS THUNBERGII.

SPIROEA THUNBERGII.

BIOTA AUREA NANA. CEDRUS DEODARA.

LIBOCEDRUS DECURRENS.

JUNIPERS.

RETINOSPORAS.

ORANGES, LEMONS AND OTHER CITRUS FRUITS.

300,000 PALMS.

KENTIAS, LATANIAS, PHOENIX.

FIELD GROWN ROSES—Own Roots and Budded.

NO SCALE and Everything Healthy and Well Grown.

P. J. BERCKMANS COMPANY, Inc.

FRUITLAND NURSERIES, AUGUSTA, GA.

Est. 1856

Over 450 Acres in Nursery

When writing to Advertisers mention The National Nurseryman.

Forest Tree Seedlings

We offer for next fall or spring delivery about 4 million of the following seedlings, mostly in grades of 8 to 12 inch, 12 to 18 inch and 18 to 24 inch.

ASH, WHITE ELM, BLACK AND HONEY LOCUST,
RUSS, MULBERRY, OSAGE ORANGE, SOFT
MAPLE, HARDY CATALPA, COTTON-
WOOD AND PERSIMMONS

All will be well graded and of good caliper and all are nursery grown, except the Cottonwood. We will make very low prices on early orders. Very respectfully,

GERMAN NURSERIES

CARL SONDEREGGER, Prop.

Beatrice, Neb.

Easterly Nursery Co.

(INCORPORATED)

CLEVELAND, TENN.

Offer for Fall and Spring Shipment

1,100,000 June Bud Peach, all standard commercial varieties.

100,000 Apple, assorted varieties, 2 to 3, 3 to 4, and 4 to 5 ft.

Pecan Trees and Crimson Rambler, Roses, at prices that must move them.

If in need of any of this stock it will pay you to get our prices.

NURSEYRYMEN'S STOCK BOOK

Revised and enlarged, 86 pages, names of varieties printed with blank spaces for additions, ledger paper, well bound in heavy tag board; price \$2.00.

SCRANTON, WETMORE & CO.,

Commercial Stationers,

Rochester, N. Y.

WILLIS NURSERIES

OTTAWA, KAS.

OFFER FOR FALL OF 1904 AND SPRING OF 1905

100,000 Apple, 2 year, choice assortment
and all grades.

75,000 Peach, all grades, good stock of
Elberta.

100,000 Concord, 1 year No. 1, choice stock,
low price

500,000 Choice Apple Stocks.

10,000 Roses, choice assortment.

Correspondence receives prompt
attention at our office.

When writing to Advertisers mention The National Nurseryman.

STARK BRO'S NURSERIES & ORCHARDS CO

CAPITAL STOCK, \$1,000,000.00

GENERAL OFFICES and Nurseries, LOUISIANA, MO.

Branch Nurseries: Starkdale, Mo. Fayetteville, Ark.
Atlantic, Iowa Dansville, N. Y. Portland, N. Y.

The Oldest
Nurseries
In the West



The Largest
Nurseries
In the World

Particular attention is called to our fine stocks of

APPLE SEEDLINGS, Iowa grown, from Vermont seed; extra fine

PEAR (Japan and French), CHERRY and PLUM SEEDLINGS

CURRANT, GOOSEBERRY, BLACKBERRY, RASPBERRY, DEWBERRY

BUDDED LILACS, superb new sorts, single and double, various colors

BECHTEL and PARKMANI DOUBLE-FLOWERED CRABS

PRUNUS PISSARDI, PRUNUS TRILOBA, EUROPEAN WHITE BIRCH

MAPLE (Norway and Silver), CAROLINA POPLAR, MULBERRY, etc.

GRAPE VINES:—An exceptionally large and fine stock of the leading commercial sorts, grown in our Portland N. Y. Grape Nurseries. We invite comparison of quantity, quality, grades and prices. Can ship from Portland or Louisiana as preferred.

We make a specialty of Carload Lots of Apple, Peach, Plum, Cherry, Standard and Dwarf Pear, Grape, etc., for the trade. Our immense storage capacity and unexcelled R. R. facilities enable prompt shipment at any time during the season. Freight rates from Louisiana, Mo., are very low, being on St. Louis basis.

North Carolina and Tennessee Natural Peach Pits.

JOHN A. YOUNG
Greensboro, N. C.

SMALL NURSERY STOCK

Get our prices before buying elsewhere.

Strawberries—45 varieties.

Raspberries — 100,000 Cumberland, 200,000 Kansas,
Gregg, Hopkins and Palmer.

Also large stock of Cardinal, Miller Red and Thwack.

Blackberries—Early Harvest and Snyder.

Grapes—1 and 2 years Standard varieties.

Currants—Red Cross, N. Star, Cherry and Red Dutch.

Gooseberries—Houghton, 2 years.

Elmhurst Nursery

M. E. Chandler

Argentine, Kansas

When writing to Advertisers mention The National Nurseryman.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country
All leading nurserymen are our regular customers. Prices Right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKMAN, SOLE AGENT,
60 Cortlandt St., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

Black Locust Mulberry

Honey, Locust, Ash, Box
Elder, Maple, Catalpa and
Elm Seedlings. Asparagus,
Rhubarb, Strawberries.

APPLE AND PEAR Seedlings in good supply.

J. A. GAGE,

Beatrice, Neb.

An Intelligent Young Man

Wants a position in an up-to-date progressive nursery, as foreman
or where there is a chance to advance. Ten years experience.
Address 19 LOUDEN STREET, CHAMBERSBURG, PA.

The Fraser Nursery

JOHN FRASER, PROP.

HUNTSVILLE, ALA.

I will commence June Budding the end of May. I offer to grow
special orders of June Buds of PLUM AND PEACH for next fall
delivery. I have a complete assortment of varieties true to name.

I ALSO OFFER FOR FALL,

STANDARD PEAR, one and two years. CHERRY, one and two
years; PECANS, one and two years; MULBERRYS, one year,
large grades; MAGNOLIA GRANDIFLORA, three years; CALI-
FORNIA PRIVET, one year; MANETTI, MULTIFLORA and
MARIANA STOCKS. DWARF BOX, H. P. MOSS, PLANTIER,
NEIL and PRAIRIE ROSES.

WRITE FOR PRICES.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.
Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assort-
ment of varieties of CURRANTS and
GOOSEBERRIES; also BLACKBERRY
ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

FOR FALL 1904 WE OFFER A GENERAL ASSORTMENT OF WELL GROWN STOCK

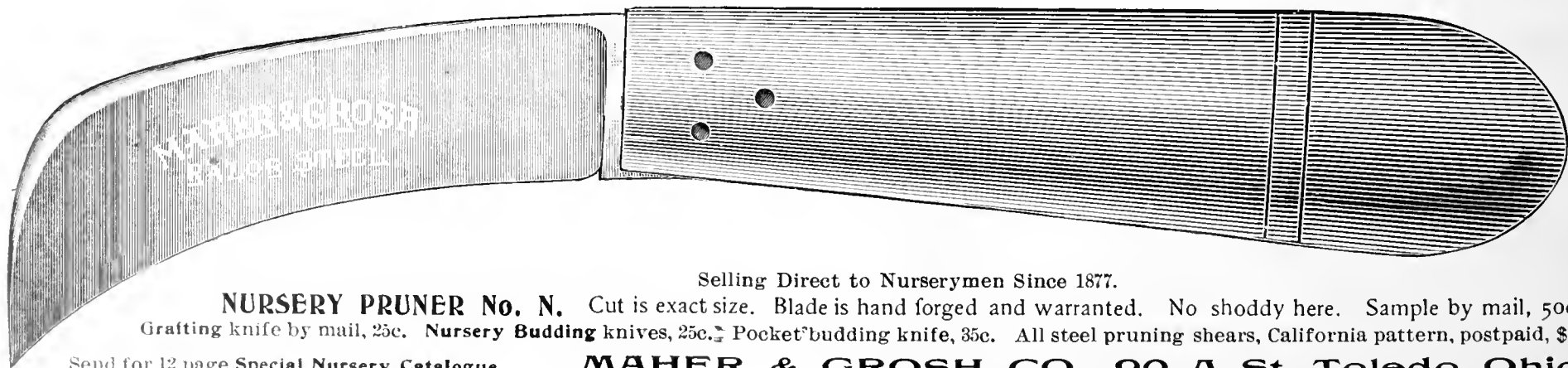
Apple, Pear, Cherry, Plum,

California Privet 1 and 2 year, Asparagus, Osage Orange,

Shade Trees in large sizes, Fine Stock

of Shrubs, Roses, Etc.

Franklin Davis Nursery Co. : BALTIMORE, Md.



Selling Direct to Nurserymen Since 1877.

NURSERY PRUNER No. N. Cut is exact size. Blade is hand forged and warranted. No shoddy here. Sample by mail, 50c.
Grafting knife by mail, 25c. Nursery Budding knives, 25c. Pocket budding knife, 35c. All steel pruning shears, California pattern, postpaid, \$1.

Send for 12 page Special Nursery Catalogue

MAHER & GROSH CO., 90 A St. Toledo, Ohio

Fall Bulbs

FOR NURSEYMEN.

We make a specialty of this line filling and packing from Tags ready for shipment. Send us an estimate of your wants and let us quote prices.

SPECIAL:

New Silver Ribbon Grass

The finest Ribbon Grass on the market. Perfectly hardy, does not turn green in hot weather and does not run to seed. Sample and prices on application.

James Vick's Sons
ROCHESTER, N. Y.

CURRENT PLANTS

AND

GRAPE VINES

Highest Standard of Grades. Largest Stock and Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK
FREDONIA, N. Y.

Pears! Pears! Pears!

BARTLETT PEARS. One two and three year old, as fine as can be grown. Will exchange for Peaches, or sell at a very low figure. Write for prices in car or part car lots.

DAVIS COUNTY NURSERIES,

Harness, Dix & Co., Prop.

35-36 Hooper Bldg, Salt Lake City, Utah.

VICTOR DÉTRICHÉ, ANGERS, FRANCE

Wholesale Grower and Exporter of

Fruit Stocks, Forest and Ornamental Trees, Shrubs and Conifers, Etc.

Advance List for Fruit Stock now ready. Liberal percentage of Mahalab and Mazzard Cherries allowed.

CHAS. F. MEYER,

Sole Agent for the United States and Canada.

99 WARREN STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

16 GOLDEN MEDALS.

52 SILVER MEDALS.



SHIPMENTS TO ALL COUNTRIES



PAUL HAUBER

Nurseryman

TRAINED FRUIT TREES A SPECIALTY

TOLKEWITZ - DRESDEN, GERMANY

Branch Nursery for Evergreens

Schweizermühle, Königstein.

Correct trained fruit trees in all shapes and in the best kinds fit for this country.

Standard Apple, Pear, Cherry, Plum, Peach and Apricot Trees.



Standard Gooseberries and Currants (3-4 feet high.)

Rose Bushes as well as Standard Roses. Strawberries and Evergreens.



PRICES ON APPLICATION.



ONLY FIRST CLASS QUALITY.

ILLUSTRATED CATALOGS FREE ON REQUEST.

New Haven Nurseries

J. BAGBY & SONS CO.

NEW HAVEN, MO.

OFFER TO THE TRADE

50,000 3 Year Apple, very fine 3-4 and up, mostly Ben Davis and Baldwin.

250,000 2 Year Apple, mostly in grades under 3-4.

500,000 Peach, 1 Year from bud, extra quality. Over 200,000 Elberta. All exceptionally well rooted. Varieties true.

20,000 Cherry, 2 Year, unexcelled in quality. Mostly Richmond, Wragg and Baldwin.

42,000 1 Year from bud Japan Plum on Plum.

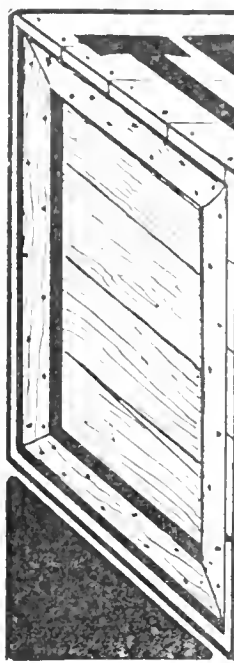
60,000 1 Year Cherry, full assortment of varieties.

Write us for prices on your wants.

All our Stock is grown at New Haven, Mo., 67 miles West of St. Louis.

St. Louis Freight Rates will Apply.

When writing to Advertisers mention The National Nurseryman.



Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together?
It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.
SPECIAL PRICES ON CAR-LOTS
MILLS WAUSAU, WIS. GOODWILLIE BROTHERS
407 New York Life Bldg., Chicago, Ill.

<p>WHY OUR STOCK IS SUPERIOR</p> <p>We cultivate amply; are never stingy with manure, and in short, give it every attention that a half-century's experience dictates. Providence too, played an important part. She has just favored us with an ideal growing season</p>	<p>OUR NEW FALL CATALOG</p> <p>Will be the index for nearly 300 acres of Hardy Ornamentals. The assortment is the largest, and representing as it does, the highest quality, it means a list that is worth consulting. Shall we send you a copy</p>
--	--

Thomas Meehan & Sons, Inc.
NURSEYMEN
Dreshertown, Nursery Street, Pa.

ESTABLISHED 1876.

Jas. M. Kennedy, Nurseryman
DANVILLE, N. Y.

I have to offer for Fall and Spring a full line of Fruit Trees. Apple, Pear, Plum, Cherry and Quince, both one and two years. It will pay you to get my prices before placing your order elsewhere.

For Rent.

A finely equipped packing yard with cellars attached. All modern improvements, located in the center of the nursery district. Rent cheap. Just the place for a dealer who wants to do his own packing. For full particulars address "FOR RENT" care National Nurseryman, Rochester, N. Y.



TREATISE ON PECANS FREE

BUDED AND GRAFTED TREES
1 and 2 years old. 1 to 6 feet of best quality. Prices right on Pecans and 10,000 Japan Plums.

B. W. STONE & CO.,
THOMASVILLE, GA.

When writing to Advertisers mention The National Nurseryman.

October Purple Plum

We have a large stock of this, the most valuable of all the Japan Plums.

ALSO 200,000 CALIFORNIA PRIVET
FROM 1½ TO 4 FEET HIGH

All cut back last Spring. This Privet is very fine.

Forest Trees of both large and small size in large quantities. Shrubs, Fruit Trees, Austrian, Scotch and White Pines from 1 to 4 feet in large numbers. Address

Stephen Hoyt Sons Co., Inc.
NEW CANAAN, CONN.

THE SOUTHERN HEMISPHERE IS CONNECTED WITH THE
 NORTHERN HEMISPHERE IN NURSERY, SEED
 AND FLORIST LINES, BY

**The Australasian Nurseryman,
 Seedsman and Florist.**

An INTERNATIONAL POCKET JOURNAL for all firms in the trade. It specially includes in its section AUSTRALIA, SOUTH AFRICA, NEW ZEELAND, ARGENTINA.

Guaranteed circulation to the WHOLE TRADE in these sections
 Splendid advertising value to any wholesale firm in any part of the world.

FOREIGN SUBSCRIPTION \$1.75, PAID IN ADVANCE.

It should be read by you and kept for reference. Address

The Australasian Nurseryman, Seedsman and Florist,
Head Office, 195 Collins St., Melbourne, Australia

For Sale. 10,000 Rhubarb, Divided Roots.

Select Plants while they last cheap. Write for prices at once. LINTON & KAUP, Des Moines, Iowa.

The Cureton Nurseries, Austin, Ga.

Offer at attractive prices Apple, Pear, Plum, Peach, Mulberry, Pecan, Eng. Walnut, Small Fruit Plants, Grape Vines, Scuppernong Vines, Amoor River Privet, Car-Poplars, Roses. 100 lbs. Stuart Pecan Seed.

Cut prices on large lots of June Budded and Year Old Peach. Catalogue FREE.

JAMES CURETON, Prop.

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Berberis Thunbergii AND OTHER Seedlings

FOR LINING OUT

Large Stock. Nursery Grown. Carefully Graded. Prices Reasonable.
Place orders now for Spring delivery. Wholesale trade list on application
BAY STATE NURSERIES, North Abington, Mass.

Apple and Peach Trees. New England Grown. A good assortment for Fall and Spring delivery. A Complete Line of Other Stock. Write for Close Prices.

THE OAKLAND NURSERIES, C. R. BURR, Prop.
Manchester, Conn.

For Sale One-third or one-half interest in well established nursery, from four to six hundred thousand assorted fruit trees. Large commercial trade; Central West; Incorporated; party capable of handling agents and retail business desired.

Address X. Y. Z., Nurseryman, care National Nurseryman, Rochester, N. Y.

WANTED A SOBER INDUSTRIOUS FOREMAN, who understands how to raise Nursery Stock and handle men; unmarried preferred. Must furnish good references. Address, DAVIS COUNTY NURSERIES, Salt Lake City, Utah.

I Was in it Last Year--The Great May Flood

I Am in it This Year--The Seedling Trade.

Come and See Me.

Write for Prices on both

Apple and Japan Pear Seedling

I have a large stock of both French and American Apple Seedlings to offer the trade.

I also offer for the Fall of 1904 and Spring of 1905 a fine lot of . . .

1 and 2 Year Apple

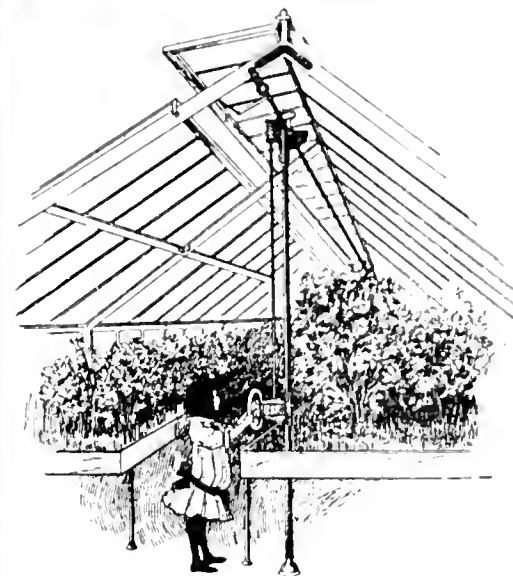
Won't You Kindly Divide Your Orders with me. It will do us Both Good

A. L. BROOKE, PROP.,

North Topeka Nurseries

North Topeka and - - Grantville, Kansas

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We furnish high grade

VENTILATING APPARATUS RAISING THE SASHES

in Greenhouses and other Buildings.
By means of oil-cups it runs smoothly

Send to-day to our New York Office five cents postage for our Heating and Ventilating Catalogue. And five cents more for Greenhouse Construction Catalogue.

LORD & BURNHAM COMPANY

NEW YORK OFFICE
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GENERAL OFFICE AND WORKS
IRVINGTON-ON-HUDSON, NEW YORK

TO THE WHOLESALE TRADE

We have a large supply of Austin's Improved Dewberry, Unexcelled Currant—BACK'S BLACK PROLIFIC, the 'Kiowa.' Will quote prices on application.

We want for November delivery a general line of nursery stock. Dry weather has cut us short in some kinds. Let us hear from you with what you have to offer and prices.

BACK'S NURSERY, J. W. BACK, Proprietor,

Altus, Greer Co., Okla.

Peters & Skinner

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS

HAVE TO OFFER

Apple Seedling Pear Seedling

Apple, Peach and Cherry Trees

Keiffer Pear

Bechtel's Double Flowering Crab

Grape Vines Flowering Shrubs

Shade Trees

When writing to Advertisers mention The National Nurseryman.

A BARGAIN

In STANDARD PEARS, extra size, 6 to 7 ft; 1 inch and up 5 to 6 ft; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere.

Address

Pioneer Nurseries Company,
— Salt Lake City, Utah, —

PEACH SEED.

CROP OF 1904

Crop is not a full one but we will have a fair supply.
Write for particulars.

We have the following Apples in surplus
and will make quotation on application.

BEN DAVIS, YORK IMPERIAL, STAYMANS,
ALB. PIPPIN, FALLAWATER, ROME
BEAUTY, REAGAN, LIMBERTWIG,
SPRINGDALE, TRADERS FANCY,
GRIMES AND VA. BEAUTY.

J. Van Lindley Nursery Co.,
POMONA HILL NURSERIES,
POMONA, N. C.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

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GULF GYPRESS Greenhouse Material

CUT AND SPLICED READY FOR ERECTION
Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus



GLASS at Wholesale

Try our Seal Tight Liquid Putty
Sample Gallon, 75 cents

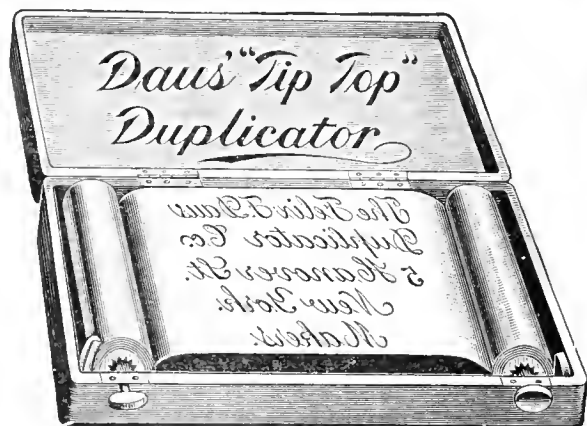
S. JACOBS & SONS

MANUFACTURERS

1365 to 1373 Flushing Avenue
BROOKLYN, N. Y.

We furnish everything for building.
Send for prices and catalogue

CALIFORNIA PRIVET, FINE ONE YEAR
LOMBARDY POPLARS, 10 TO 16 FT.
PEACH TREES, FINE STOCK
ALL MY OWN GROWING.
JOSIAH A. ROBERTS
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TO PROVE that Daus' "Tip-Top" Duplicator is the best
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we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial if you
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For Nurserymen and Florists

DAYTON FRUIT TREE LABEL Co.

South Canal Street, Dayton, Ohio

When writing to Advertisers mention The National Nurseryman.

4,000,000 PEACH TREES

SIDE LINE

300,000
2 Year Apple
Assorted Varieties.

100,000
1 Year Kieffer Pear

100,000
Assorted Cherry
1 Year Buds.

50,000
1 Year Plum

50,000
June Budded Plum

See me or write for
prices before you place
your order.

TENNESSEE WHOLESALE NURSERIES

WINCHESTER, TENN.
J. C. HALE, Prop.

**Largest Stock of Peach
in the United States**

JUNE BUDS A SPECIALTY

**Am now ready to book
orders for delivery,
Fall 1904 and Spring
1905.**

BOX STRAPS. Uncut Lengths. 28 in. and 63 in. SHORTER LENGTHS TO ORDER.

Soft tough strip steel. Can drive a nail through the Straps without previous punching. Cheapest and best Straps for Nurserymen on the U. S. market. Write for sample and prices.

References—Nurserymen Generally.

WARD-DICKEY STEEL CO.,

Manufacturers of
PLANISHED SHEET STEEL.

Indiana Harbor, Ind.

FREDONIA GROWN GRAPE VINES Known the world over.

All standard varieties, warranted true, grade unsurpassed. Immense stock, 1 and 2 years. Fine stock Currants, Cherries, Pears, Plums, Etc. All orders large or small cared for in a substantial manner. Give us a trial order. Send list of wants for prices.

FOSTER & GRIFFITH, FREDONIA, N. Y.

POTS! POTS! POTS!

We are manufacturers of *Standard Flower Pots* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY, 213-23 Pearl Street
NORRISTOWN, PA.

CHARLES DÉTRICHÉ, Senior ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS**

Extra Large Assortments of Shrubs, Conifers, etc
Prices on Application.

JACKSON & PERKINS CO., NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON, CHATENAY SEINE, FRANCE

GROWER AND EXPORTER OF

**French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc Fruit Tree Stocks.**

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

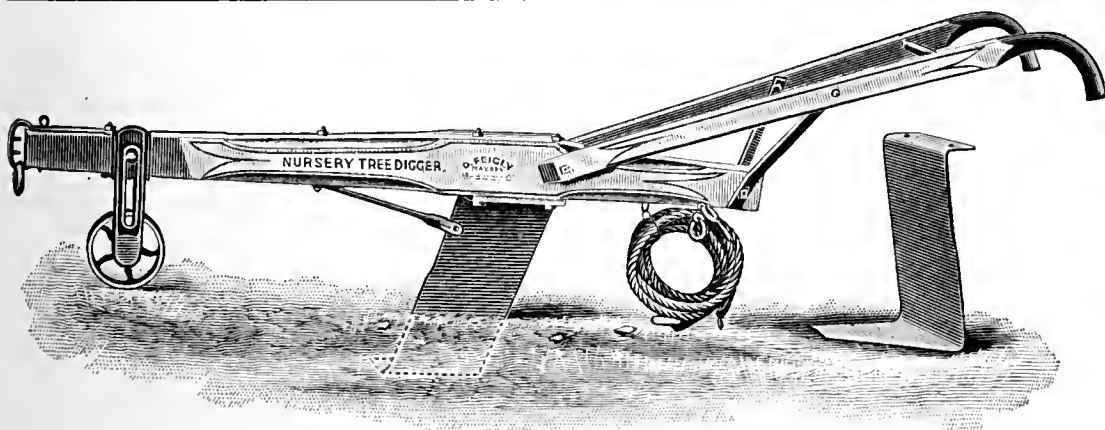
GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

WE MAKE A SPECIALTY OF GROWING
Catalpas, Tree and Shrub Seeds, Russian Mulberry, Red Bud, Green Ash, Box Elder, Sweet Gum, American Persimmon, Walnuts, Birches, Beeches, Sycamores, Altheas, Lindens, and a general line of nursery-grown and Collected Seedlings for Nurserymen's planting.

It will pay you to get my prices before ordering elsewhere.

FOREST NURSERY & SEED CO.

Irving College, Tenn., Warren County



THE IMPROVED Feigly Digger

A Money Saving Tool
for Nurserymen.

MANUFACTURED BY

D. FEIGLY, Medway, O. Sole Agent. Send for Circular.

When writing to Advertisers mention The National Nurseryman.

ELMIRE SEBIRE

FILS AINE, USSY. CALVADOS. FRANCE

Grower and Shipper of Nursery Stock

Ornamentals, Trees and Shrubs; Evergreens, Conifers.
Forest Trees, for Spring or Fall shipment.

Send for estimates to our sole American agents,

AUGUST RÖLKER & SONS,

P. O. Box 752.

31 BARCLAY STREET, NEW YORK

Importers of NURSERY STOCKS, FRUIT and TREE SEEDS.

RAFFIA FIBRE in Prime Nurserymen's Quality.

XENIA STAR NURSERIES.

Submit your want list, (actual or estimated) for special prices on

Apple. Pear. Cherry, Plum, Peach,

Also Grape Vines, Small Fruits, Shade and Ornamental Trees,
Shrubs, etc. Opalescent Apples. Western Grown Apple Seedlings.

McNARY & GAINES, XENIA, OHIO.

We can now make you satis- **Apple and Pear Seedlings.**
factory prices on

Write us, we can tell you something that will please you.

N. E. COPELAND, Oakland, Kan.

APPLE We offer for Fall a general assortment of
Apples, 2 and 3 years, 3 4 and up, also 5/8 and
up, in 80 kinds.

PEACH In good assortment 9 16 and up, also 3 to 4
ft. grade.

CALIFORNIA PRIVET 2 and 3
years old.

West Jersey Nurseries

STANTON B. COLE
BRIDGETON, N. J.



CHASE'S NEW HAMPSHIRE MAID

WOOD LABELS

For Nurserymen and Florists.

BENJAMIN CHASE,

- DERRY, N.H.

Vincennes Nurseries

W. C. REED, VINCENNES, IND.

We offer for Fall of 1904 the following in Car Lots:
Apple 2 and 3 year. Pear Std. and Dwf. Cherry 1 and
2 year. Plum 1 and 2 year; Japan and European. Peach
1 year. Soft Maple, Elm, Box Alder, Ash and Wiers Cut
Leaf Maple.

Also Nice Stock of Roses, Shrubs and Small Fruits.
Personal inspection invited.

We Offer for Fall Large Stock June Bud Peach and Plum

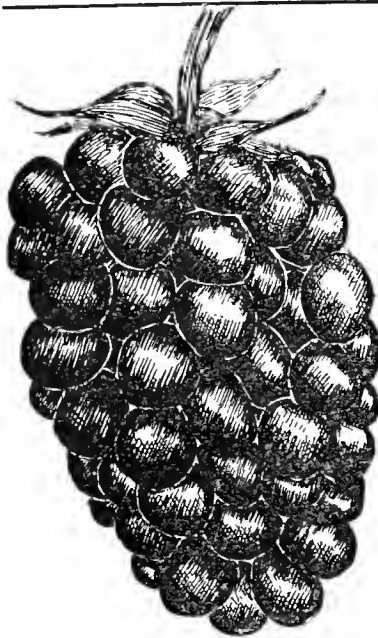
We also offer fine lot of Kansas grown 2-year Apple
of assorted varieties, about 50,000 at very close
prices F. O. B.

50,000 3 16 and up Kansas grown Apple Seedlings.
A nice lot of 1-year Peach and Cherry. Also South-
ern Mountain natural Peach Seed for shipment from
our Nurseries.

We offer Nurserymen and the trade inducements. Prices on Strawberry Plants,
June Buds and 1 year Peach. Write us.

Chattanooga Nurseries

CHATTANOOGA, TENN.



STRAWBERRY and RASPBERRY plans
of all the new and old sorts in large
or small quantity.

PREMO DEWBERRY. No one can afford
to miss giving this a trial.

**ELDORADO, MAXWELL and ICEBERG
BLACKBERRIES.**

PEACH TREES—1 yr. and June Buds. We
have the finest lot of June budded
Peach we ever saw grow, also a
general line of other stock.

MYER & SON,

BRIDGEVILLE, DEL.

AT GRIFFING'S NURSERIES Budded Pecan Trees

*Japan Persimmon, Japan Walnut, Fig
Trees and Muscadine Grape Vines*

Are leaders to the trade this year.

We also offer a general line of Nursery Stock, including Fruit and
Ornamental Trees, Shubbery, Field-Grown Roses, Etc., Etc.
Prices always right.

THE GRIFFING BROS. CO.

JACKSONVILLE, Fla.

HARDY Native American Rhododendrons and Aza-
leas are the best to use. There are a hundred
thousand growing in the Highlands Nursery.
Large clumps, 2½-6 feet high collected in the
Pennsylvania Mountains, at a low rate per car load.
Write for surplus list and full particulars, also, for uni-
que illustrated catalog of Hardy Native Plants, filled
with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of

Beacon Building,

Highlands Nursery, N. C.

BOSTON, MASS.

When writing to Advertisers mention The National Nurseryman.

THE NEW ROSE **BABY RAMBLER.**

(OR THE EVERBLOOMING DWARF CRIMSON RAMBLER.)

In the summer of 1902, we contracted with LEVAVASSEUR & SONS, of Orleans, France, for the control of this Rose in America. We are now booking orders for same as follows:

January Delivery, strong, 1 year, Dormant, field grown plants, \$5 per 12; \$35 per 100.

May Delivery, from 2½ inch pots, \$2.75 per 12; \$17.50 per 100; 42.50 per 250.

This Rose will be wanted in large quantities by Florists, Nurserymen, Parks, Landscape men, etc., and you can't afford to be without it.

SEND ORDER TO-DAY to be Sure of Getting Stock. Orders Filled in Order of Date.

This Rose is a Prize Winner

And has taken the following Five Prizes: At Paris, in May, the *Grand Silver Medal*; in November *Certificate of Merit of First Class* by the National Horticultural Society of France. At London in April, *Certificate of Merit of First Class* by the Royal Horticultural Society of London. At London in June, *Certificate of Merit of First Class* by National Rose Society of England. At Orleans in August, Judged and Rated by the Horticultural Society of Orleans and Loriet, *Gold Medal*—Highest Prize.

It Blooms Every Day in the Year. It is Perfectly Hardy. Free from Insects and Fungus.

Brown Brothers Company, Continental Nurseries, Rochester, N. Y.

We have JUST PUBLISHED ANOTHER EDITION of our

Descriptive Catalogue

which we have been furnishing for years to many Nurserymen throughout the different states. We have made many additions and improvements in both Descriptions and Illustrations. We would ask those, who have never used our Catalogue, to send for Sample, look it over carefully, and we believe it will recommend itself.

We fully realize what a difficult matter it is to issue a Stock Catalogue to suit all Nurserymen, but we know, from comments received, that our efforts are appreciated, and that our Catalogue is the best one published.

PRICE, \$8.00 PER 100

WITH YOUR NAME ON COVER.

SAMPLE COPY 15 CENTS.

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Don't Experiment

With Cheap PLATES or PLATE BOOKS

Buy the Best We Make 'em.

Rochester Lithographing Company

Rochester, N. Y.

The Character of your Business is Judged Largely by your line of Advertising Matter.
WE PRODUCE THE BEST for Nurserymen.

**THE KIND YOU WANT AND
WHEN YOU WANT THEM.**

*Have you Tried our
NEW CONDENSED PLATE BOOK?*

*Send for Catalogue of Colored Plates, Circulars,
Cards, Plate Books and other Supplies.*

Rochester Lithographing Company

176 North Water Street, Rochester, N. Y.

THE NEW ROSE **BABY RAMBLER.**

(OR THE EVERBLOOMING DWARF CRIMSON RAMBLER.)



NOTE THE PRIZES
IN
PARIS, LONDON
AND ORLEANS.

OUT DOORS
BLOOMS CONTINUOUS
(EVERY DAY)

BLOOMS DAILY ALL THE
YEAR UNDER GLASS

FROM MAY UNTIL
FROSTS.

THE GREATEST OF
FORCING ROSES

PERFECTLY HARDY

BLOOMS ALWAYS.

THE MOST WONDERFUL ROSE EVER GROWN OUTDOORS, A MASS OF BLOOM EVERY DAY FROM EARLY ROSE SEASON UNTIL LATE FROSTS. UNDER GLASS, IN BLOOM DAILY THE ENTIRE YEAR.

SEE OTHER SIDE FOR PRICES.

BROWN BROTHERS COMPANY, CONTINENTAL NURSERIES, ROCHESTER, N. Y.

Painesville

Nurseries



OFFER one of the largest and most complete assortments of Nursery and Florists' Stock in the United States, in-

cluding **Fruit and Nut Trees, Deciduous and Evergreen Trees and Shrubs, Hardy Vines and Plants, Small Fruits and Grape Vines, Tender Plants, Bulbs and Seeds.**

CALL ESPECIAL ATTENTION TO OUR STOCK FOR SPRING OF
1904 OF

Standard and Dwarf Apples, Standard and Dwarf Pears, Cherries, Plum and Peaches.

Grape Vines — Large lot Fredonia grade.

Small fruits a fair stock of most kinds. Many leading varieties will be short. Early orders advised. Our plants are graded, handled and packed right.

Roses—Hybrid Perpetual and Climbers including the largest lot of Crimson Ramblers in the country.

Shrubs, Climbing Vines, Perennial Plants—In fine assortment including fine lot Ampelopsis Veitchii, Clematis Paniculata, California Privet, Berberry in variety, Japan Quince, etc.

From Holland--Our importations are large and stock never in better condition. Rhododendrons, Hardy Azaleas, Tree Roses, Tree Hydrangea, Magnolias with ball. Flowering Thorns, Purple Filberts, two and three year Clematis, etc.

Some Bargains in light grade Apple and Peach.

Glad to estimate on your list of wants.

Descriptive Catalogue, complete new edition, one of the best and most comprehensive ever issued, free to the trade.

Visitors always welcome. The new C. P. & A. Electric R. R. has stop on our grounds.

The Storrs & Harrison Co.

PAINESVILLE, OHIO

TREES
Fruit and Ornamental.
Shrubs
Evergreens
Roses
Hardy Plants

All the Best and Hardest Varieties.
Largest Collections in America.
Illustrated Descriptive Catalogue
FREE on request.

ELLWANGER & BARRY,
Nurserymen-Horticulturists.
MOUNT HOPE NURSERIES,
Rochester, N. Y.
Established 1840. Mention this publication.

AN ATTRACTIVE SPECIALTY FOR NURSEYMEN
AND DEALERS IS OFFERED IN OUR
NEW PEDIGREED CLIMBING ROSE
DOROTHY PERKINS

A SEEDLING ROSE OF OUR OWN ORIGINATING.
AWARDED A SILVER MEDAL AT THE PAN-AMERICAN.
SEND FOR DESCRIPTIVE CIRCULAR.

Handsome Four Page Circulars will be furnished with customer's name, address, etc., imprinted at \$2.00 per 100, their actual cost.

Electrotypes of any of the cuts used in this circular will be furnished for catalogue use.

Handsome Lithographed Plates for Salesmen's Use will be supplied to concerns who employ agents. Samples mailed on application. We do not offer these plates for indiscriminate distribution but only for the use in salesmen's outfits. When furnished in considerable numbers, a memorandum charge of 1½ cents each will be made for them but such charge will be credited back upon orders for rose bushes of this variety.

FOR 1904-1905, STRONG, FIELD-GROWN PLANTS, TWO YEARS OLD.

JACKSON & PERKINS CO.
Wholesale Nurserymen
NEWARK, New York.

C. VAN KLEEF & CO., (The Boskoop Holland Nursery Association) **Boskoop, Holland**

Extensive Growers and Exporters Of

HARDY HOLLAND ROSES

Hybrid Perpetuals, Tea and Moss, Roses, **CRIMSON RAMBLERS**, **FREE** or **STANDARD ROSES**; Buxus Conifers, **KOSTER'S BLUE SPRUCE**; Lilacs; **PARSON'S EXTRA HARDY** and **HYBRID RHODODENDRONS**; **HARDY AZALEAS**; **HYDRANGEAS**, Bush and Standards. Magnolias, Paeonias, Herbaceous Plants.

CLEMATIS JACKMANNI and other leading varieties. Ampelopsis Veitchi, Aristolochius and all Ornamental Trees, Shrubs and Plants at **LOWEST MARKET PRICES**.

Before placing your order send your estimate.

Our Agent, **MR. C. H. JOOSTEN**, 201 West Street, New York, who will be at the Nurserymen's Convention at Atlanta, Ga. to take your order. Catalogues mailed on application.

French Fruit Tree Stocks from Lenault Huet and Colombe Ussy, Calvados, France.

300,000 Surplus in Peaches.
100,000 in Leading Plums on Peach and Mari-
anna. 15,000 Apricots. All one year old, on new
prairie land. Absolutely healthy. Write for trade
list and retail catalog giving descriptions of new
fruits. There is something in it.

F. T. RAMSEY,
Austin Nursery. Austin, Texas.

The WILLADEAN NURSERIES

Offer a Large and General Assortment
of Stock for Fall 1904.

Special Prices will be made for Early Orders of the Following:
PEACH, APPLE, GRAPES, HYDRANGEAS,
P. G. SNOWBALLS, LILACS, SPIREA
and WEIGELIAS, ORNAMENTALS,
ROSES, FOREST TREE
SEEDLINGS.

TREE SEEDS IN SEASON. WRITE FOR PRICES.

The Donaldson Co.,
Successors to Donaldson & Gibson. WARSAW, KY.

SMALL FRUIT PLANTS

We are now ready to contract for Raspberry
and Blackberry Plants for Fall delivery.
RASPBERRY—Kansas, Cumberland, Gregg, Hop-
kins, Palmer, Reds, Miller, Thwack.
BLACKBERRY—Early Harvest, Snyder.

SEND FOR PRICES.

HOLSINGER BROS.,
ARGENTINE, :: :: KANSAS.

MAHALEB AND MAZZARD
CHERRY

MYROBOLAN PLUM
—SEEDS—

NOW READY.
Fresh, plump and in fine germinating condition.
Plant now for best results. Samples free.

THOMAS MEEHAN & SONS, Inc.
Dreshertown, . Nursery Street, . Pa.

HOOPES BRO. & THOMAS
Maple Avenue Nurseries,
ESTABLISHED IN 1853.
WEST CHESTER, PA.

We have to offer for Fall 1904 and Spring 1905
an unusually large stock of healthy, carefully grown

**TREES, SHRUBS,
VINES, ETC.**

Please send us your list of wants for prices.

KANSAS CITY NURSERIES

A GENERAL LINE OF NURSERY
STOCK, WHOLESALE AND RETAIL

GRAPE VINES, a heavy stock of Concord and Moore's Ear'y One
and Two years; Worden, Niagara, &c., One year. Small fruits—Rhubarb,
Asparagus, Ornamental Shrubs, Cal. Privet, &c.

We publish the best and cheapest 80 page Co-operative Illustrated Des-
criptive Catalogue in the market, of which we have just issued a new edition.

This is the great Railroad Center of the West, and we can ship direct
to almost any point without transfers.

BLAIR & KAUFMAN, - Kansas City, Mo.
Office: 233-34 Rialto Building.

RAFFIA RED STAR BRAND

THE NURSERYMAN'S GRADE,

When you order the RED STAR BRAND you get the best. Long,
white and strong. Orders for bale (225 lbs.) or more from
stock or larger lots for direct import. Write for prices.

McHutchison & Co., 218 Fulton St., New York

We offer for Fall 1904 and Spring 1905
A FULL ASSORTMENT OF

Roses and Ornamental Shrubs

ALL FIELD GROWN.

Special inducements to those buying in large quantities
We make the growing of Roses a specialty and can take care
of any size order of the leading sorts of H. P.; Tea; Hybrid
Tea; Prairies; Mosses, Etc., Privet; Philadelphus; Althaea and
Spirea. Send for Wholesale List.

The United States Nursery Co.
RICH, COAHOMA COUNTY, MISS.

GRAPE VINES.

with grade and prices. Write me before placing your order elsewhere.

EUGENE WILLETT, **N. COLLINS, N. Y.**

When writing to Advertisers mention The National Nurseryman.

Let us have your list of wants for our
lowest quotations. Our vines are making
a fine growth. We can please you

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1904, AND SPRING, 1905

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

Clematis! Clematis!

We have a large number of them that must be sold for next Fall delivery. Two-year old field grown, strong, healthy plants. Write for prices that will meet the sharpest competition.

P. W. BUTLER & CO., Penfield, N. Y.

PECAN TREES AND NUTS

BUDDED, GRAFTED and SEEDLING TREES. Twenty-seven Varieties. Trees in sizes from 6 inches to 6 feet and over. Wholesale and Retail.

ONE, TWO AND THREE YEAR OLD TREES.

A visit to our Groves and Nurseries will interest you. 700 acres in Pecans. Illustrated catalogue sent on application.

The G. M. Bacon Pecan Company, Inc.,
DEWITT, GA.

1851

KNOX NURSERIES

1904

We offer for Fall of 1904 a large number of our well known ONE YEAR CHERRY, two year Cherry, Peach, Apple and a general line. Also have a lot of Fine Norway Spruce 2-3 ft. Will make Special Inducements for early orders of Cherry and Peach. Personal inspection invited. Correspondence solicited.

H. M. SIMPSONS & SONS,
VINCENNES, IND.

When writing to Advertisers mention The National Nurseryman.

F. N. Stannard & Co.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseber-
ries and Currants Also Ornamental Trees
and Shrubs

DREER SPECIALS

For Fall 1904.

Herbaceous Paeonies.

A large stock of all the leading varieties at correct prices.

Hardy Phlox.

About 150,000 one year field grown plants in stock, the best Standard Varieties can be supplied in unlimited quantity.

Large stocks of all the popular Perennials including

ASTERS,
CAMPANULAS,
COREOPSIS,
DIANTHUS,
DELPHINIUMS,
FUNKIAS,
GAILLARDIAS,
HELIANTHUS,

HEMEROCALLIS,
HELENIUMS,
HYPERICUMS,
POPPIES,
RUDBECKIAS,
STOKESIAS,
TRITOMAS,
Etc., Etc.

Special list and prices on Paeonies and Phlox mailed on application.

HENRY A. DREER,

714 Chestnut St, Philadelphia, Pa.

When writing to Advertisers mention The National Nurseryman.

Fruit and Ornamental Trees

WE OFFER for Fall shipment a very large and complete stock of FRUIT and ORNAMENTAL TREES in all lines, SMALL FRUITS, SHRUBS, ROSES, HERBACEOUS PLANTS, including a large lot of named PAEONIES and YUCCAS, HEDGE PLANTS, Etc., Etc. We are heavy on HARDY VARIETIES OF APPLE, EARLY RICHMOND CHERRY, KEIFFER PEAR, NATIVE PLUM and PEACH. Send list of wants for prices. Fall Catalogue now ready. Can make prompt shipment.

PHOENIX NURSERY COMPANY,

Established
1852.

Bloomington, Illinois

WINFIELD NURSERIES

Branch Plants

WELLINGTON, KANSAS

ROCK, KANSAS

Special Grape Nurseries

BELLE PLAINE, KANSAS

Forest Tree Seedlings,
APPLE SEEDLINGS.

Grape, Kieffer Pear.
GRAFTS MADE TO ORDER

COOPER & MONCRIEF, PROPS.
WINFIELD, KANSAS

B. & A. SPECIALTIES

AUTUMN

Dutch, French, Japanese and Chinese Bulbs
Bay Trees, All Forms and Sizes
Boxwood, Pyramid, Standard and Bush
Pot Grown Strawberries and English Grape Vines
Roses for All Purposes
Forcing Plants, Lilac, Azaleas, Rhododendron, Etc.
Shade, Fruit and Ornamental Trees
Rhododendrons, Hardy Hybrids and Native Maxima
Palms, Araucarias, Aspidistras, Cycas, Etc.
Ferns, Boston and Other Kinds
Japanese Fern Ball in Leaf
Evergreens and Flowering Shrubs
Hardy Herbaceous Plants, Paeonias, Etc.
Clematis, English Ivy and Other Hardy Vines

Ask for Autumn Catalogues

Our 75 Acres of Nursery
are Always Interesting

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, New Jersey

WE HAVE PRACTICALLY

"Everything in Small Fruit Plants"

At prices as low as good stock can be grown, we offer at a bargain during October and November

500,000 CURRANT CUTTINGS

Varieties Fays, Red Cross, Wilder, London Market, Victoria, N. Star, Red Dutch and Versailles.

In Novelties Jap. Wine Berries, Logan Berries, Strawberries,
We Have Raspberries, Ever-Bearing Raspberry, Rocky
Mountain Cherry, White Blackberries, Tree
Currants, Etc., Etc. Price List Free.

W. N. SCARFF, NEW CARLISLE, O.

OUR NEW CATALOGUE

Quoting Prices for Fruit Tree Stocks :

300	Varieties of Conifers, 1 to 4 years old,
1200	" " Ornamental Trees and Shrubs, 1 to 3 years old,
1600	" " New and Old Ornamental Trees and Shrubs, in all sizes,
250	" " Climbing Plants,
400	" " Conifers, 1 to 4 feet high,
400	" " Perennials,
800	" " New and Old Roses,

has been distributed and will be sent free on application.
Write direct to us.

WE HAVE NO AGENTS

Trancon Bros.' and D. Dauvesse's Nurseries.

BARBIER & CO.

16 Route d'Olivet, ORLÉANS, France

Fruit Tree Stocks

*Apple, Quince, Mahaleb and Mazzard
Cherry, French Pear, Myrobalan Plum
and Paradise Apple*

Send for "Fruit Stock and Seed" List

Thomas Meehan & Sons, Inc.

WHOLESALE NURSERYMEN

Dreshertown, Nursery Street, Penna.

STANDARDS STANDARDS Of Currants and Gooseberries

Straight Stems 3-4 ft. high, grafted on Ribes.
Strong Heads. Best Varieties.

Also
Roses, Standards correct trimmed
Fruit Trees, Etc.

Please write and get my prices before ordering
elsewhere.

B. Muellerklein's Nurseries
Karlstadt (near Frankfort Main, Germany)

The L. Green & Son Co.

PERRY, LAKE CO., OHIO

Offer to the trade a very complete assortment of

Nursery and Landscape Gardener's Stock

IN SURPLUS—

American Sweet Chestnut, 4 to 5 ft, 5 to 6 ft. and 6 to 8 ft.

Carolina Poplar, all sizes, and other Deciduous Trees

Nice line of Shrubs, Herbaceous and Perennial Plants.

Please send us your want list as well as your surplus.

Headquarters for —

BUDDED APPLE

PEACH TREES

Carolina Poplar

GRAPE VINES, ETC.

Send us your list of wants.

Central Michigan Nursery, Kalamazoo, Mich.

Experienced Nurseryman

wishes office position with large wholesale firm; knows the business; wholesale and retail, mail order and agency; prefers to take entire charge of office or of some department, such as correspondence, or sales, or collections; has had long experience in the business and is well known to the trade; at present holds responsible position with good firm, but can give satisfactory reasons for desiring to change; can furnish highest references; salary expected to be in proportion to responsibility and efficiency; to the firm needing a business man of experience in their office, the advertiser can render valuable service.

Address : "Experienced", care of this paper.

BRIDGEPORT NURSERIES

For Fall 1904 and Spring 1905

We will have our usual large supply and complete assortment of stock for the TRADE in CAR-LOAD or SMALLER LOTS.

For early orders special prices will be named.

Apple, Pear, Plum, Cherry, and Quince can be shipped from Dansville, New York.

Apple Trees and Apple Seedlings can be shipped from TOPEKA, KANSAS.

From Bridgeport, Indiana, we are prepared to ship a complete assortment of **Hardy Fruit** and **Ornamental Trees, Plants, Vines, Seedlings, etc.**

Send us your list of wants before placing orders, and we will make you prices.

Personal inspection invited—come and see us.

Spades, the BEST and CHEAPEST. **Excelsior** (baled) the best packing material for either shipping or storage (cheaper and far superior to Moss.)

Box Straps, soft steel.

Our storage and shipping facilities are unsurpassed.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport, Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

Nurseries - Richmond, Va., and Wickham, Hanover Co. Va.

Offer for Fall 1904

California Privet, 1 and 2 yrs. old, Japan Plums on Plum, Cherry, 2 yrs., Peach Seedlings, Large Sugar Maples, Elms, and other Ornamental Stock.

We will have stock of N. C. and Tenn. Natural Peach Pits to offer for September and October.

WE WANT Apple and Pear for early Fall delivery, also Apple Seedlings.

YOUNGERS & CO., Geneva, Neb.

We Offer to the Trade: APPLE SEEDLINGS,
APPLE TREES, PEACH TREES,
AM. PLUM TREES, HEDGE PLANTS,
FOREST TREE SEEDLINGS.

CAR LOTS A SPECIALTY.

We are ready to quote prices on Apple Seedlings for Fall and Winter delivery.

WILL MAKE LOW PRICES FOR EARLY ORDERS.

Our high standard of grading will please.

Our Apple Seedlings are on new land, this being the first crop of nursery stock planted on the soil, which insures healthy plants.

All styles of Root Grafts made to order.

Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

Established 1875

Mount Arbor Nurseries

E. S. WELCH, Proprietor

Shenandoah, Iowa

OFFER FOR SEASON 1904-5

**GRAFTS
SEEDLINGS
SCIONS**

And a Complete Line of General Nursery Stock

Orders booked and full assortment placed in storage for early spring shipment.

WE ISSUE THREE WHOLESALE PRICE LISTS EACH YEAR

FALL

(In September)

WINTER

(In December)

SPRING

(In February)

We want your name and address if you are not receiving these lists regularly.

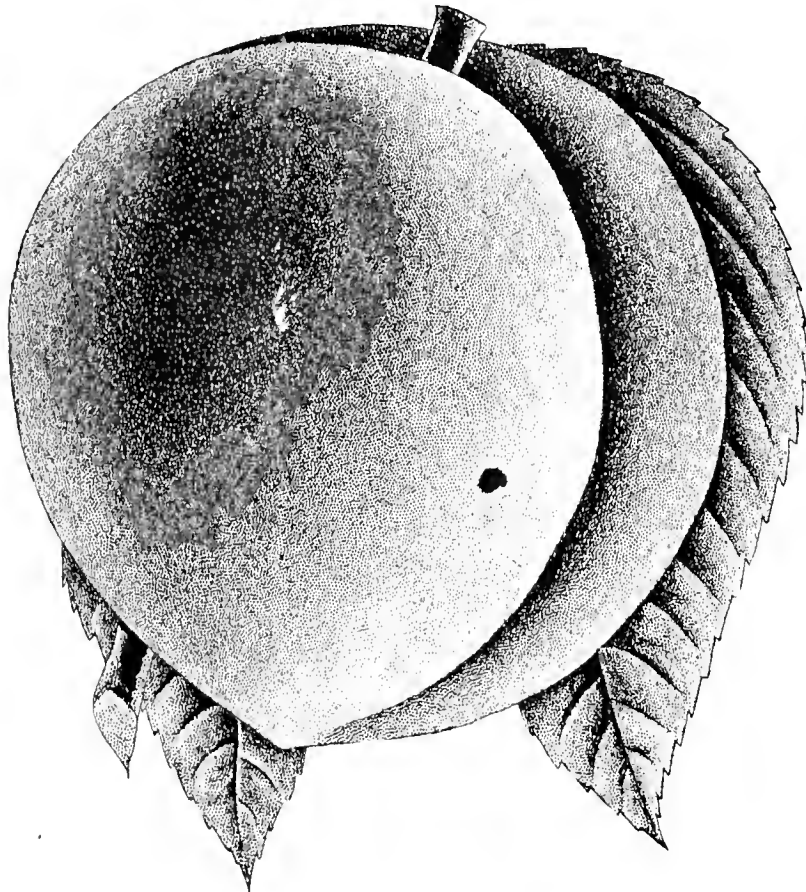
When writing to Advertisers mention The National Nurseryman.

Buds! Buds! Buds!

PEACH BUDS

FOLLOWING VARIETIES:

Alexander Amstden June
Ark. Traveller Ark. Beauty
Bilyer Buston's Oct.
Barnards Early Beauty B.
Bequett Free Brandywine
Belle of Ga. Bokara
Barber Burke
Chair's Choice
Crawford Late Carman
Crosbey Coolridge
Chilow Connecticut
Cobler Conklin
Chinese Cling Champion
Crawford Early Delaware
Denton Dover
Elberta Engle's Mammoth
Edgemont Early Michigan
Everbearing
Eureka
Easton Cling
Early Davidson
Early Toledo
Early Heath
Foster
Fitzgerald
Francis
Fox Seedling
Ford's Late White
Globe
Garfield
Gold Mine
Gordan
Geary's Holden
Gold Drop
Hughes
Heard's Beauty
Haines Surprise
Hale's Early
Holland Cling
Holderbaum
Heidelberg
Hobson's Choice
Jennie Worthien
Jacques R. R.
Kalamazoo
Klondike Lewis
Lodge Lemon Cling
Levy's Late L. Early York
Matthews Beauty
Magnum Bonum
Mrs. Brett Marshall
Miss Lolo Mary's Choice
New Prolific Niagara
Newington Cling Oscar
Pearce's Yellow
Phillips Hortons
Reeves Favorite
Red Cheek Melocoton
Salway
Smock Cling
Schumaker
Shipley's L. Red
Sunrise Cling
Steadley
Scott's Nonpareil
Switzerland
Troth's Early
Van Meteor L. O.
Victor Wonderful
William's Favorite Weaver
Waterloo Wheeler's Late
Walker's V. Free
Ward's Late
Willett
Wager
Wilkin's Cling
W. H. Cling
Yellow Oct.
Yellow Ripe



APPLE BUDS

FOLLOWING VARIETIES:

Arkansas Black Alexander
American Blush
Amer. Golden Russett
Albermarle Pippin
Baldwin Ben Davis
Bell de Boscoop
Belmont Bailey's Sweet
Boken Benona
Cole Coffelet
Clark's Orange Chase's Jelly
Cart House Duchess
Dominine Detroit Red
Early Pennock
Esopus Shitzenburg
Early Colton
Early Harvest
Fallwater Flora Bell
Fourth of July
Famuese Fall Pippin
Grimes Golden
Gano Gen. Grant
Gravenstein
Huntsman's Far
Hubbards Nonsuch
Haas Hurlburt
Hyslop Hubbardston
Iowa Blush Jonathan
Jersey Sweet
King
Kentucky Red Streak
Kennards Choice
Legal Tender
Lowell Loy
Longfield Lansingburg
Lawyer
Lankford Seedlings
Limber Twig M. B. Twig
Maiden's Blush Mo. Pippin
Mc.intosh Red
Montreal Beauty
Milan Mann
Kinkler Martha
N. W. Greening
Newtown Pippin
Northern Spy
Nero Ohio Nonpareil
Porter Price's Sweet
Pecks Pleasant
Primate Plum Cider
Pewaukee R. I. Greening
Rome Beauty
Red Astrachan
Red June Roman Stem
Rawles Janet
Rolfe Romanite
Red Beitingheimer
Rambo Stark
Sweet Bough
Stayman's Winesap
Summer Rambo
Sutton's Beauty
Salome Seek-No-Further
Starr Shackelford
Swarr
Stewart's Golden
Stark Smith Cider
Twenty Ounce Pippin
Talpehocken
Transcendent
Tallman Sweet Utters Red
Virginia Beauty
Vandevere Pippin Wealthy
W.W. Pearmain Wolf River
Whitney Wagner
Winter Rambo Walbridge
Winter Blush Wismer
Willow Twig Winesap
White June
York Imperial
Yellow Transparent
Yellow Bellflower

ALSO PEAR, PLUMS and CHERRY BUDS.

GENERAL LIST OF VARIETIES.

HAVE FINE STOCK OF

Peach, Apple and Kieffer Pear

ALL SIZES and GRADES.

WILL QUOTE PRICE ON APPLICATION.

J. G. HARRISON & SONS,

Berlin, Md.

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☆ NOV 3 1904 ☆
U. S. Department of Agriculture.



November, 1904.

Homes in the South

There are in the Southern States awaiting development, thousands of acres of uncultivated farm lands in tracts of all sizes, which can be purchased very cheaply. They are productive, healthy, and close to good markets. In ten States reached by the lines of the

Southern Railway

For information about opportunities now available, prices of land, character of soils, etc., write to

M. V. RICHARDS

Land and Industrial Agent

Washington, D. C., Southern R'y

The L. Green & Son Co.

PERRY, LAKE CO., OHIO.

Offer to the trade a very complete assortment of

Nursery and Landscape Gardener's Stock

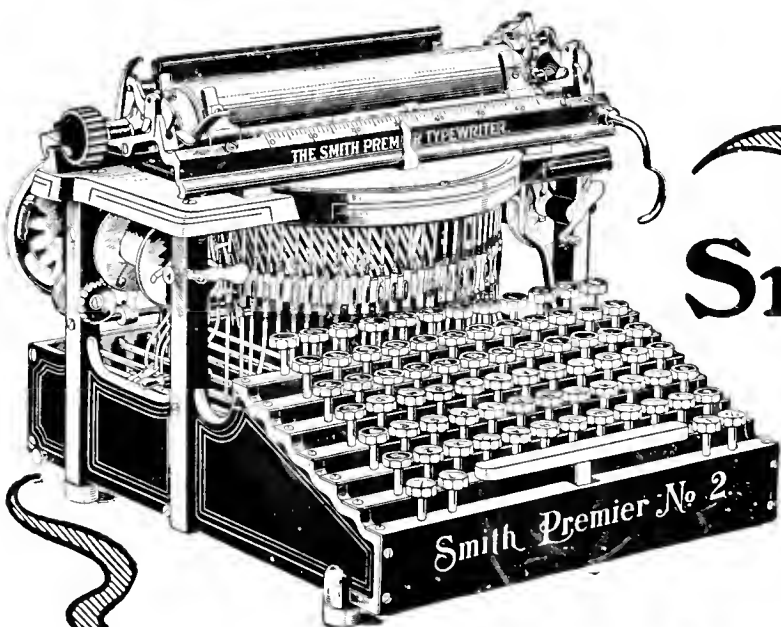
IN SURPLUS—

American Sweet Chestnut, 4 to 5 ft., 5 to 6 ft. and 6 to 8 ft.

Carolina Poplar, all sizes, and other Deciduous Trees.

Nice line of Shrubs, Herbaceous and Perennial Plants.

Please send us your want list as well as your surplus.



The Smith Premier

is the simplest and strongest of all writing machines. It does better work, does it quicker, lasts longer, and costs less in the long run than any other typewriting machine. It is

The World's Best Typewriter

Let us send you our little book telling all about it

When you want a competent stenographer (male or female) to operate any make of machine, call up

Our Employment Department

We furnish them promptly. We save you time and trouble. We carefully examine all applicants. We select to meet your requirements. No charge to either party. We have operators with the combined qualifications of stenographer, typewriter and bookkeeper, also expert telegraphers.

Let us know exactly what you want, and we will meet your requirements without delay.

The Smith Premier Typewriter Company

36 Exchange Street

ROCHESTER, N. Y.



Painesville Nurseries



OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF NURSERY
AND FLORISTS' STOCK IN THE UNITED STATES, INCLUDING

**Fruit and Nut Trees, Deciduous and Ever-
green Trees and Shrubs, Roses, Hardy Vines
and Plants, Small Fruits and Grape Vines,
Tender Plants, Bulbs and Seeds** *♪ ♪ ♪ ♪*

SOME FINE STOCK ON WHICH WE CAN QUOTE LOW RATES IN
**Elms, Willows, Poplars, Philadelphus-Deutzias, Tree and Bush Hy-
drangea, Thunbergs Berberry, Climbing Honeysuckles and Ampe-
loopsis Veitchii.**

An extra fine lot of **Tree Roses** for fall delivery. Hardy, home-grown **Field
Roses**—largest and best stock in country.

Immense stock of **Grape Vines** and **Small Fruits, Currents, Root-
Cutting Blackberries**, etc., in large assortment of varieties graded right.

Azalias, Palms, Ficus, Araucarias and other Decorative Plants in large
supply. **French, Holland, Japan** and **Bermuda Bulbs**—direct importations
from the best growers.

Pleased to price your list of wants or to show you our stock. Special inducements
for car lots on Fall delivery or stored for Spring shipments. If you have not received
our fiftieth anniversary descriptive catalog, send for it.

Catalogs and Price Lists free.

50 YEARS. 1200 ACRES. 44 GREENHOUSES.

The Storrs & Harrison Co.,
PAINESVILLE, OHIO.

PIN OAKS
ORIENTAL PLANES
WILLOWS LAUREL-LEAVED
 AND OTHERS
ALSO
GENERAL NURSERY STOCK

The Finest Collections in America.
 Catalogue on Request.

Ellwanger & Barry,
MT. HOPE
NURSERIES
Rochester, N. Y.

\$40,000 FRUIT FARMERS

Are good customers for nurserymen. No need to waste time and money to convince them that they ought to plant fruit trees and plants—they are already interested in this work.

THE FRUIT-GROWER
ST. JOSEPH, MISSOURI

circulates 40,000 papers every month among this desirable class of customers. Every reader grows fruit. For nursery advertising, therefore, The Fruit-Grower is the best advertising medium in the country because it has no waste circulation, and the circulation is guaranteed

Advertising Rate, 20c. Line; \$2.80 Inch.

It would cost a nurseryman \$400.00 for postage alone to send circulars to 40,000 fruit farmers; to this must be added the cost of printing, etc., to say nothing of the expense of securing this many good names.

The Fruit-Grower will place your advertisement before this number of desirable customers for \$2.80 per inch, or a full page (9x14 inches), for \$120. Where else can you get such cheap, effective advertising?

Remember the special issues of the Fruit Grower: January, 1905, "Anniversary Number;" February, "Spraying;" March, "Gardening;" April, "Small Fruits;"—the best papers ever printed. Commencing with October issue, all states East of Ohio will receive our **EASTERN EDITION**. Send copy for your advertisement today.

THE FRUIT-GROWER CO.
 331 S. SEVENTH ST.,
ST. JOSEPH, MO.



BROTHER JONATHAN—Trade Mark.

When writing to Advertisers mention The National Nurseryman.

1904 CROP
APPLE SEED

FRENCH OR VERMONT.
EARLY WINTER DELIVERY.

A FEW OF OUR SPECIALTIES.

ROSES, Crimson Rambler, Dorothy Perkins, H. P's AMPELOPSIS VEITCHII, 2 years and 3 years. CLEMATIS, Leading large flowering varieties. BERBERRIES, Purple-leaved and Thunbergii. HYDRANGEA PANICULATA GRANDIFLORA, Standards and Bush-form. HONEYSUCKLES, Climbing and Upright. JAPAN QUINCE, Large stock, strong plants. PRIVET, CALIFORNIA, Transplanted, very bushy. PAEONIAS, Large roots, best varieties. SNOWBALLS, Common.

Send us list of your wants for quotation.

JACKSON & PERKINS CO.
 NEWARK, NEW YORK

Specialties for Fall

CHERRIES. PLUMS. MULBERRIES.
 WALNUS—ENGLISH AND JAPAN. PECANS.
 EXOCHORDA. LILACS. LONICERAS.
 HYDRANGEAS—Field Grown, Strong.
 THOS. HOGG, ROSEA, ETC.
 CAMELLIAS, AZALEAS, GARDENIAS, MAGNOLIAS.
HEDGE PLANTS:
 CALIFORNIA PRIVET IN LARGE QUANTITIES.
 CITRUS TRIFOLIATA. BERBERIS THUNBERGII.
 SPIROEA THUNBERGII.
 BIOTA AUREA NANA. CEDRUS DEODARA.
 LIBOCEDRUS DECURRENS.
 JUNIPERS. RETINOSPORAS.
 ORANGES, LEMONS AND OTHER CITRUS FRUITS.
300,000 PALMS.
 KENTIAS, LATANIAS, PHOENIX.
 FIELD GROWN ROSES—Own Roots and Budded.
 NO SCALE and Everything Healthy and Well Grown.

P. J. BERCKMANS COMPANY, Inc.
FRUITLAND NURSERIES, AUGUSTA, GA.
 Est. 1856 Over 450 Acres in Nursery

When writing to Advertisers mention The National Nurseryman.

Berberis Thunbergii AND OTHER Seedlings

FOR LINING OUT

Large Stock. Nursery Grown. Carefully Graded. Prices Reasonable.
Place orders now for Spring delivery. Wholesale trade list on application
BAY STATE NURSERIES, North Abington, Mass.

Apple and Peach Trees. New England Grown. A good assortment for Fall and Spring delivery. A Complete Line of Other Stock. Write for Close Prices.

THE OAKLAND NURSERIES, C. R. BURR, Prop.
Manchester, Conn.

CAROLINA POPLARS

AND

SILVER LEAF MAPLES

In Large or Small Quantities. Write for Prices

MILLS-DALE NURSERY (Inc.)

GREENVILLE, S. C.

WANTED A SOBER INDUSTRIOUS FOREMAN, who understands how to raise Nursery Stock and handle men; unmarried preferred. Must furnish good references. Address, DAVIS COUNTY NURSERIES, Salt Lake City, Utah.

I Was in it Last Year--The Great May Flood

I Am in it This Year--The Seedling Trade.

Come and See Me.

Write for Prices on both

Apple and Japan Pear Seedling

I have a large stock of both French and American Apple Seedlings to offer the trade.

I also offer for the Fall of 1904 and Spring of 1905 a fine lot of . . .

1 and 2 Year Apple

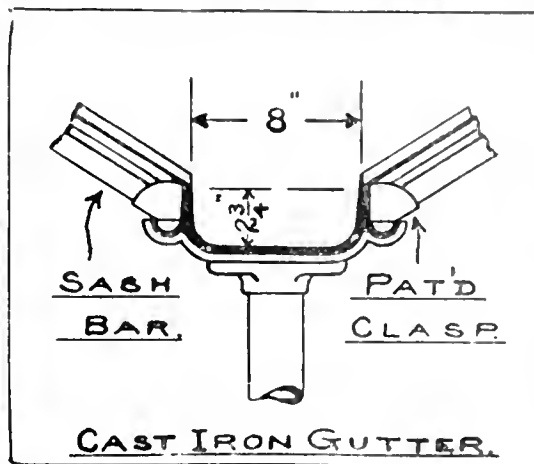
Won't You Kindly Divide Your Orders with me. It will do us Both Good

A. L. BROOKE, PROP.,

North Topeka Nurseries

North Topeka and - - - Grantville, Kansas

When writing to Advertisers mention The National Nurseryman.



Use Lord & Burnham Co.

Cast Iron Gutters

For your Greenhouses. They are straight, durable, and easily set in place. Being exposed to the inside heat of the house, they readily free themselves from snow and ice. Our gutters are provided with grooves to catch drip from roof and patent iron clasps for fastening sash bars, also fittings to fasten to posts underneath. These gutters can be used with any style of house.

PRICES UPON APPLICATION

Mail ten cents to our New York Office for Greenhouse Construction Catalogue; also Heating and Ventilating Catalogue, five cents each for postage

LORD & BURNHAM COMPANY

New York Office

General Office and Works

ST. JAMES BLDG., 1133 BROADWAY. IRVINGTON-ON-HUDSON, N. Y.

P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobalan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

Peters & Skinner

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS

HAVE TO OFFER

Apple Seedling Pear Seedling

Apple, Peach and Cherry Trees

Keiffer Pear

Bechtel's Double Flowering Crab

Grape Vines Flowering Shrubs

Shade Trees

When writing to Advertisers mention The National Nurseryman.

The 20th Century Specialty **BABY RAMBLER**

THE EVERBLOOMING DWARF CRIMSON RAMBLER

We control all the plants of this new Rose. We are now booking orders for Spring 1905. FLORISTS, NURSEYMEN, PARKS, LANDSCAPE MEN will want this rose in large quantities.

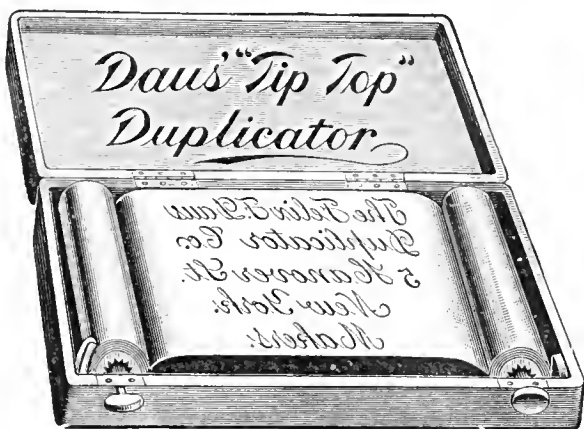
Send in your order now to be sure of getting stock. You cannot afford to be without this specialty.

THIS ROSE IS A PRIZE WINNER

And has taken the following Five Prizes: At Paris, in May, the *Grand Silver Medal*; in November, *Certificate of Merit of First Class* by the National Horticultural Society of France. At London in April, *Certificate of Merit of First Class* by the Royal Horticultural Society of London. At London in June, *Certificate of Merit of First Class* by National Rose Society of England. At Orleans in August, judged and rated by the Horticultural Society of Orleans and Lorient, *Gold Medal*—Highest Prize.

It Blooms Every Day in the Year. It is Perfectly Hardy. Free From Insects and Fungus.

Brown Brothers Company, Continental Nurseries, Rochester, N. Y.



What Is Daus' Tip-Top?

TO PROVE that Daus' "Tip-Top" Duplicator is the simplest, and cheapest device for making 100 copies from Pen-written and 50 copies from Type-written original

we are willing to send a complete "Duplicator" without deposit on **TEN DAYS** trial if you mention The National Nurseryman.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 year's experience in Duplicators. Price for complete apparatus, cap size (prints 8½ in. by 13 in.) \$7.50, subject to the trade discount of 33⅓ per cent.—**\$5.00 NET.**

FELIX A. M. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

WOOD LABELS OF EVERY DESCRIPTION

For Nurserymen and Florists

DAYTON FRUIT TREE LABEL Co.

South Canal Street, Dayton, Ohio

When writing to Advertisers mention The National Nurseryman.

Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1904, AND SPRING, 1905

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
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Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

DEWBERRIES! DEWBERRIES!! DEWBERRIES!!!

100,000 LUCRETIA
100,000 PREMO
100,000 WILSON BLACKBERRIES

All plants guaranteed true to name and first class in every respect. Plants ready for shipment. No charge for packing.

For special prices write

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BUDDED, GRAFTED and SEEDLING TREES. Twenty-seven Varieties. Trees in sizes from 6 inches to 6 feet and over. Wholesale and Retail.

ONE, TWO AND THREE YEAR OLD TREES.

A visit to our Groves and Nurseries will interest you. 700 acres in Pecans. Illustrated catalogue sent on application.

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1851

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We offer for Fall of 1904 a large number of our well known ONE YEAR CHERRY, two year Cherry, Peach, Apple and a general line. Also have a lot of Fine Norway Spruce 2-3 ft. Will make Special Inducements for early orders of Cherry and Peach. Personal inspection invited. Correspondence solicited.

H. M. SIMPSONS & SONS,
VINCENNES, IND.

When writing to Advertisers mention The National Nurseryman.

F. N. Stannard & Co.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

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For Fall 1904.

Herbaceous Paeonies.

A large stock of all the leading varieties at correct prices.

Hardy Phlox.

About 150,000 one year field grown plants in stock, the best Standard Varieties can be supplied in unlimited quantity.

Large stocks of all the popular Perennials including

ASTERS.	HEMEROCALLIS,
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Special list and prices on Paeonies and Phlox mailed on application.

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FRENCH, Fresh 1904 Crop, Prime Quality.

About 5,000 pounds unsold to-day; to prompt buyers at reasonable cost; packed in casks of 100 lbs. net (40 lbs. to be the equal of one bushel); prices on application.

Forest Tree Seedlings, Evergreens, Coniferous and other Ornaments; also **Manetti** and **Multiflora Rose Stocks**, all in good grade for growers; spring deliveries. Examine latest trade list just mailed. Address all orders to my American agents:

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P. O. Box 752, or 31 **BARCLAY STREET, NEW YORK**

ELMIRE SEBIRE, Fils Aîné, Ussy, France

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(INCORPORATED)

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Offer for Fall and Spring Shipment

1,100,000 June Bud Peach, all standard commercial varieties.

100,000 Apple, assorted varieties, 2 to 3, 3 to 4, and 4 to 5 ft.

Pecan Trees and Crimson Rambler, Roses, at prices that must move them.

If in need of any of this stock it will pay you to get our prices.

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Revised and enlarged, 86 pages, names of varieties printed with blank spaces for additions, ledger paper, well bound in heavy tag board; price \$2.00.

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Sole American Agents for

VINCENT LEBRETON,

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French Fruit and Ornamental Seedlings, Manetti, Multiflora, Etc.

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Large Evergreens, Conifers, Transplanted Flowering Shrubs, Apple Stocks, Norway Maples, Etc.

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Dwarf and Standard Roses, Pæonies, Clematis, Evergreens Hardy Azaleas and General Boskoop Nursery Stock.

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Best grade selected for Nurserymen. In stock or price quoted for ten or more bales for direct import.

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In the West



The Largest

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In the World

Particular attention is called to our fine stocks of

APPLE SEEDLINGS, Iowa grown, from Vermont seed; extra fine

PEAR (Japan and French), CHERRY and PLUM SEEDLINGS

CURRENT, GOOSEBERRY, BLACKBERRY, RASPBERRY, DEWBERRY

BUDDED LILACS, superb new sorts, single and double, various colors

BECHTEL and PARKMANI DOUBLE-FLOWERED CRABS

PRUNUS PISSARDI, PRUNUS TRILOBA, EUROPEAN WHITE BIRCH

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Natural Peach Pits.

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Get our prices before buying elsewhere.

Strawberries—45 varieties.

Raspberries—100,000 Cumberland, 200,000 Kansas, Gregg, Hopkins and Palmer.

Also large stock of Cardinal, Miller Red and Thwack.

Blackberries—Early Harvest and Snyder.

Grapes—1 and 2 years Standard varieties.

Currants—Red Cross, N. Star, Cherry and Red Dutch.

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Elmhurst Nursery

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4,000,000 PEACH TREES

SIDE LINE

300,000
2 Year Apple
Assorted Varieties.

100,000
1 Year Kieffer Pear

100,000
Assorted Cherry
1 Year Buds.

50,000
1 Year Plum

50,000
June Budded Plum

See me or write for
prices before you place
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WINCHESTER, TENN.
J. C. HALE, Prop.

**Largest Stock of Peach
in the United States**

JUNE BUDS A SPECIALTY

**Am now ready to book
orders for delivery,
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Soft tough strip steel. Can drive a nail through the Straps without previous punching. Cheapest and best Straps for Nurserymen on the U. S. market. Write for sample and prices.

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OF FRUIT TREE STOCKS
FOREST TREES AND
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Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

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**French Nursery Stocks, Dutch Bulbs,
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All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
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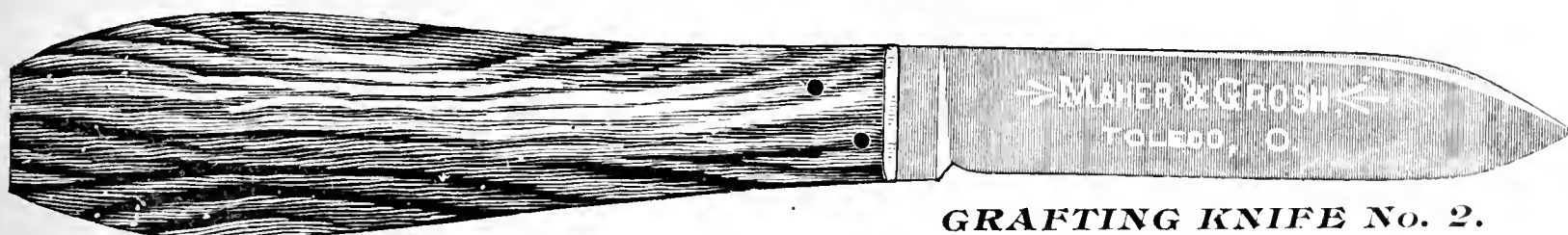
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It will pay you to get my prices before ordering elsewhere.

FOREST NURSERY & SEED CO.

Irving College, Tenn., Warren County.



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Cut is exact size of our Grafting Knife No. 2. Sample, by mail, 20 cents. 6 for \$1.00.

No. 1 has a "sheep foot" blade and is larger. Sample; by mail, 25 cents. 5 for \$1.00.

Budding Knife, riveted in handle, 25 cts. 12 for \$2.25, postpaid. Pocket Budder, 35 cents.

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1½ to 2 inch Calliper, 10 to 12 feet. Fine straight bodies. Transplanted.

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Submit your want list, (actual or estimated) for special prices on

Apple, Pear, Cherry, Plum, Peach,

Also Grape Vines, Small Fruits, Shade and Ornamental Trees, Shrubs, etc. Opalescent Apples. Western Grown Apple Seedlings.

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We can now make you satisfy Apple and Pear Seedlings.
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Write us, we can tell you something that will please you.

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APPLE We offer for Fall a general assortment of Apples, 2 and 3 years, ¾ and up, also ⅝ and up, in 80 kinds.

PEACH In good assortment 9 16 and up, also 3 to 4 ft. grade.

CALIFORNIA PRIVET 2 and 3 years old.

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BRIDGETON, N. J.

WANTED AT ONCE—Young office man, single, capable of handling correspondence and thoroughly understanding the Nursery business; must be a good bookkeeper. A fair salary goes with the position, and a chance for advancement.

CALIFORNIA NURSERY COMPANY,
NILES, CALIFORNIA.

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Apple 2 and 3 year. Pear Std. and Dwf. Cherry 1 and 2 year. Plum 1 and 2 year; Japan and European. Peach 1 year. Soft Maple, Elm, Box Alder, Ash and Wiers Cut Leaf Maple.

Also Nice Stock of Roses, Shrubs and Small Fruits.
Personal inspection invited.

We Offer for Fall Large Stock June Bud Peach and Plum

We also offer fine lot of Kansas grown 2-year Apple of assorted varieties, about 50,000 at very close prices F. O. B.

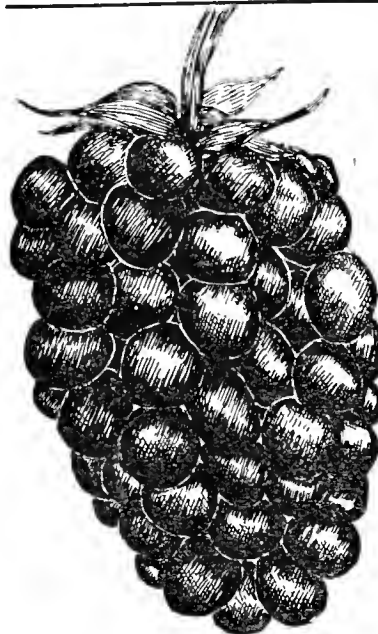
50,000 ¾ and up Kansas grown Apple Seedlings.

A nice lot of 1-year Peach and Cherry. Also Southern Mountain natural Peach Seed for shipment from our Nurseries.

We offer Nurserymen and the trade inducements. Prices on Strawberry Plants, June Buds and 1 year Peach. Write us.

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CHATTANOOGA, TENN.



STRAWBERRY and RASPBERRY plans of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,

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AT GRIFFING'S NURSERIES

Budded Pecan Trees

Japan Persimmon, Japan Walnut, Fig Trees and Muscadine Grape Vines

Are leaders to the trade this year.

We also offer a general line of Nursery Stock, including Fruit and Ornamental Trees, Shubbery, Field-Grown Roses, Etc., Etc. Prices always right.

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JACKSONVILLE, Fla.

We are headquarters for *Stokesia Cyanea* and *Liatus Gracilis*

The two best hardy plants of recent introduction. Every nurseryman should carry a line of them. We also grow Cannos, Roses, Gladioli and other ornamental stock. Write us for lists.

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HARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

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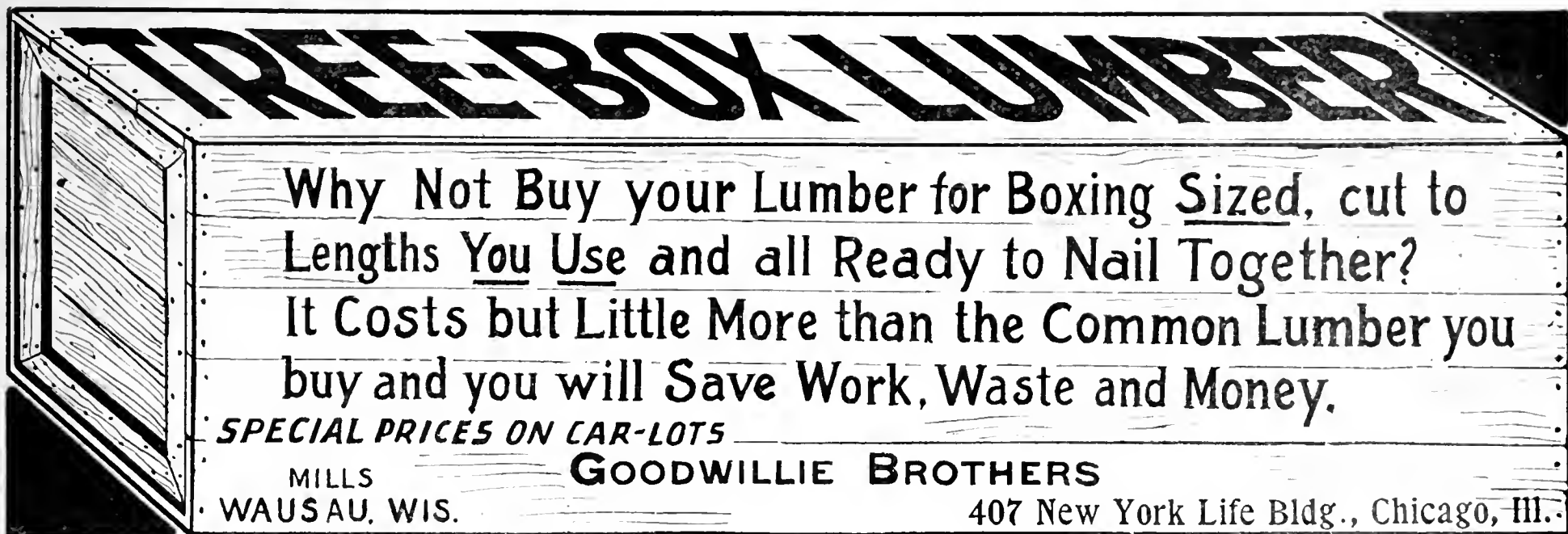
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Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together?
It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS **GOODWILLIE BROTHERS**
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WHY OUR STOCK IS SUPERIOR

We cultivate amply; are never stingy with manure, and in short, give it every attention that a half-century's experience dictates. Providence too, played an important part. She has just favored us with an ideal growing season

OUR NEW FALL CATALOG

Will be the index for nearly 300 acres of Hardy Ornamentals. The assortment is the largest, and representing as it does, the highest quality, it means a list that is worth consulting. Shall we send you a copy

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Dreshertown, Nursery Street, Pa.

ESTABLISHED 1876.

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For Rent.

A finely equipped packing yard with cellars attached. All modern improvements, located in the center of the nursery district. Rent cheap. Just the place for a dealer who wants to do his own packing. For full particulars address "FOR RENT" care National Nurseryman, Rochester, N. Y.

Black Locust Mulberry

APPLE AND PEAR Seedlings in good supply.

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Honey, Locust, Ash, Box Elder, Maple, Catalpa and Elm Seedlings. Asparagus, Rhubarb, Strawberries.

APPLE TREES, And Other Nursery Stock

We have to offer for Spring trade several thousand Apple Trees, 5-8 to 3-4. Also a large stock of California Privet, 2 to 4 feet; Catalpas, 6 to 8 feet; Scotch, Austrian and White Pines, 2 to 4 feet; White Birch, 6 to 10 feet, and a large stock of Maples, Lindens, Tulip, Salisburia, Shruberry, &c. Send your want list for prices. Address,

The Stephen Hoyt's Sons Co., Incorporated.
NEW CANAAN, CONN.

THE SOUTHERN HEMISPHERE IS CONNECTED WITH THE NORTHERN HEMISPHERE IN NURSERY, SEED AND FLORIST LINES, BY

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The Cureton Nurseries, Austell, Ga.

Offer at attractive prices Apple, Pear, Plum, Peach, Mulberry, Pecan, Eng. Walnut, Small Fruit Plants, Grape Vines, Scuppernong Vines, Amoor River Privet, Car-Poplars, Roses. 100 lbs. Stuart Pecan Seed.

Cut prices on large lots of June Budded and Year Old Peach. Catalogue FREE.

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The Abilene Nurseries.

We have a fine lot of first class Nursery Stock to offer to the trade. Our Specialties: APPLE, PEACH, CHERRIES, PLUM, NECTARINE and FOREST TREE SEEDLINGS. We also have a big stock of three year old Forest Trees, Elm, Ash, Catalpa, Soft Maple and Honey Locust. We can furnish most anything in our line. Write for prices. We want your trade.

W. T. GOUGH, Prop. ABILENE, KANSAS.

20 000 Three Year Old Apple Trees, nice and smooth. Good Assortment.

The WILLADEAN NURSERIES

Offer a Large and General Assortment
of Stock for Fall 1904.

Special Prices will be made for Early Orders of the Following:

PEACH, APPLE, GRAPES, HYDRANGEAS,
P. G. SNOWBALLS, LILACS, SPIREA
and WEIGELIAS, ORNAMENTALS,
ROSES, FOREST TREE
SEEDLINGS.

TREE SEEDS IN SEASON.

WRITE FOR PRICES.

The Donaldson Co.,

Successors to
Donaldson & Gibson.

WARSAW, KY.

A BARGAIN

In STANDARD PEARS, extra size, 6
to 7 ft; 1 inch and up 5 to 6 ft; 3-4 and up.
Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buy-
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Address

Pioneer Nurseries Company,

Salt Lake City, Utah,

MAHALEB AND MAZZARD
CHERRY

MYROBOLAN PLUM
SEEDS

NOW READY.

Fresh, plump and in fine germinating condition.
Plant now for best results. Samples free.

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Dreshertown, . Nursery Street, . Pa.

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Greenhouse Material

CUT AND SPLICED READY FOR ERECTION

Hot Bed, Sash, Pipes, Fittings, Ventilating Apparatus



GLASS at Wholesale

Try our Seal Tight Liquid Putty

Sample Gallon, 75 cents

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BROOKLYN, N. Y.

We furnish everything for building.

Send for prices and catalogue

KANSAS CITY NURSERIES

A GENERAL LINE OF NURSERY
STOCK, WHOLESALE AND RETAIL

GRAPE VINES, a heavy stock of Concord and Moore's Early One
and Two years; Worden, Niagara, &c., One year. Small fruits—Rhubarb,
Asparagus, Ornamental Shrubs, Cal. Privet, &c.

We publish the best and cheapest 80 page Co-operative Illustrated Des-
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This is the great Railroad Center of the West, and we can ship direct
to almost any point without transfers.

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ALL OLD AND NEW VARIETIES

Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.

Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assort-
ment of varieties of CURRANTS and
GOOSEBERRIES; also BLACKBERRY
ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

We offer for Fall 1904 and Spring 1905

A FULL ASSORTMENT OF

Roses and Ornamental Shrubs

ALL FIELD GROWN.

Special inducements to those buying in large quantities

We make the growing of Roses a specialty and can take care
of any size order of the leading sorts of H. P.; Tea; Hybrid
Tea; Prairies; Mosses, Etc., Privet; Philadelphus; Althaea and
Spirea. Send for Wholesale List.

The United States Nursery Co.

RICH, COAHOMA COUNTY, MISS.

GRAPE VINES.

with grade and prices. Write me before placing your order elsewhere.

EUGENE WILLETT,

N. COLLINS, N. Y.

When writing to Advertisers mention The National Nurseryman.

Let us have your list of wants for our
lowest quotations. Our vines are making
a fine growth. We can please you

Fruit and Ornamental Trees

WE OFFER for Fall shipment a very large and complete stock of FRUIT and ORNAMENTAL TREES in all lines, SMALL FRUITS, SHRUBS, ROSES, HERBACEOUS PLANTS, including a large lot of named PAEONIES and YUCCAS, HEDGE PLANTS, Etc., Etc. We are heavy on HARDY VARIETIES OF APPLE, EARLY RICHMOND CHERRY, KEIFFER PEAR, NATIVE PLUM and PEACH. Send list of wants for prices. Fall Catalogue now ready. Can make prompt shipment.

PHOENIX NURSERY COMPANY,

Established
1852.

Bloomington, Illinois

WINFIELD NURSERIES

Branch Plants

WELLINGTON, KANSAS

ROCK, KANSAS

Special Grape

Nurseries

Belle Plaine, Kansas

Forest Tree Seedlings,
APPLE SEEDLINGS.

Grape, Kieffer Pear.
GRAFTS Made to Order

COOPER & MONCRIEF, PROPS.
WINFIELD, KANSAS

WE HAVE PRACTICALLY

"Everything in Small Fruit Plants"

At prices as low as good stock can be grown, we offer at a bargain during October and November

500,000 CURRANT CUTTINGS

Varieties Fays, Red Cross, Wilder, London Market, Victoria, N. Star, Red Dutch and Versailles.

In Novelties We Have Jap. Wine Berries, Logan Berries, Strawberries, Raspberries, Ever-Bearing Raspberry, Rocky Mountain Cherry, White Blackberries, Tree Currants, Etc., Etc. Price List Free.

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B. & A. SPECIALTIES

AUTUMN

Dutch, French, Japanese and Chinese Bulbs
Bay Trees, All Forms and Sizes
Boxwood, Pyramid, Standard and Bush
Pot Grown Strawberries and English Grape Vines
Roses for All Purposes
Forcing Plants, Lilac, Azaleas, Rhododendron, Etc.
Shade, Fruit and Ornamental Trees
Rhododendrons, Hardy Hybrids and Native Maxima
Palms, Araucarias, Aspidistras, Cycas, Etc.
Ferns, Boston and Other Kinds
Japanese Fern Ball in Leaf
Evergreens and Flowering Shrubs
Hardy Herbaceous Plants, Paeonias, Etc.
Clematis, English Ivy and Other Hardy Vines

Ask for Autumn Catalogues

Our 75 Acres of Nursery
are Always Interesting

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, New Jersey

OUR NEW CATALOGUE

Quoting Prices for Fruit Tree Stocks :

300 Varieties of Conifers, 1 to 4 years old,
1200 " " Ornamental Trees and Shrubs, 1 to 3 years old,
1600 " " New and Old Ornamental Trees and Shrubs, in all sizes,
250 " " Climbing Plants,
400 " " Conifers, 1 to 4 feet high,
400 " " Perennials,
800 " " New and Old Roses,
has been distributed and will be sent free on application.
Write direct to us.

WE HAVE NO AGENTS

Transon Bros.' and D. Dauvesse's Nurseries.

BARBIER & CO.

16 Route d'Olivet, ORLÉANS, France

Fruit Tree Stocks

Apple, Quince, Mahaleb and Mazzard
Cherry, French Pear, Myrobalan Plum
and Paradise Apple

Send for "Fruit Stock and Seed" List

Thomas Meehan & Sons, Inc.

WHOLESALE NURSERYMEN

Dreshertown, Nursery Street, Penna.

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country
All leading nurserymen are our regular customers. Prices Right. Send your list of wants for prices before buying elsewhere to

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Sole Agent for UNITED STATES AND CANADA.

60 Cortlandt St., NEW YORK.

Headquarters for—

BUDDED APPLE

PEACH TREES

Carolina Poplar

GRAPE VINES, ETC.

Send us your list of wants.

Central Michigan Nursery, Kalamazoo, Mich.

FOR FALL 1904 WE OFFER A GENERAL ASSORTMENT OF WELL GROWN STOCK

*Apple, Pear, Cherry, Plum,
California Privet 1 and 2 year, Asparagus, Osage Orange,
Shade Trees in large sizes, Fine Stock
of Shrubs, Roses, Etc.*

Peach Seed Crop 1904

Write for Prices

Franklin Davis Nursery Co. : BALTIMORE, Md.

The Fraser Nursery

JOHN FRASER, PROP.

HUNTSVILLE, ALA.

I will commence June Budding the end of May. I offer to grow special orders of June Buds of PLUM AND PEACH for next fall delivery. I have a complete assortment of varieties true to name.

I ALSO OFFER FOR FALL,

STANDARD PEAR, one and two years. CHERRY, one and two years; PECANS, one and two years; MULBERRYS, one year, large grades; MAGNOLIA GRANDIFLORA, three years; CALIFORNIA PRIVET, one year; MANETTI, MULTIFLORA and MARIANA STOCKS, DWARF BOX, H. P. MOSS, PLANTIER, NEIL and PRAIRIE ROSES.

WRITE FOR PRICES.

When writing to Advertisers mention The National Nurseryman.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

When writing to Advertisers mention The National Nurseryman.

BRIDGEPORT NURSERIES

For Fall 1904 and Spring 1905

We will have our usual large supply and complete assortment of stock for the TRADE in CAR-LOAD or SMALLER LOTS.

For early orders special prices will be named.

Apple, Pear, Plum, Cherry, and Quince can be shipped from Dansville, New York.

Apple Trees and **Apple Seedlings** can be shipped from TOPEKA, KANSAS.

From Bridgeport, Indiana, we are prepared to ship a complete assortment of **Hardy Fruit** and **Ornamental Trees, Plants, Vines, Seedlings, etc.**

Send us your list of wants before placing orders, and we will make you prices.

Personal inspection invited—come and see us.

Spades, the BEST and CHEAPEST. **Excelsior** (baled) the best packing material for either shipping or storage (cheaper and far superior to Moss.)

Box Straps, soft steel.

Our storage and shipping facilities are unsurpassed.

ALBERTSON & HOBBS

Nine miles west of Indianapolis
on Vandalia Railroad
"New Telephone" in Office.

Bridgeport, Marion Co., Indiana.

(Indianapolis & Plainfield Trolley Line
cars to and from city hourly, pass
our office). Old telephone.

OVER 350 ACRES OF NURSERY. Call Bridgeport, Ind.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

Nurseries — Richmond, Va., and Wickham, Hanover Co. Va.

Offer for Fall 1904

California Privet, 1 and 2 yrs. old, Japan Plums on Plum, Cherry, 2 yrs., Peach Seedlings, Large Sugar Maples, Elms, and other Ornamental Stock.

We will have stock of N. C. and Tenn. Natural Peach Pits to offer for September and October.

WE WANT Apple and Pear for early Fall delivery, also Apple Seedlings.

YOUNGERS & CO., Geneva, Neb.

We Offer to the Trade: APPLE SEEDLINGS,
APPLE TREES, PEACH TREES,
AM. PLUM TREES, HEDGE PLANTS,
FOREST TREE SEEDLINGS.

CAR LOTS A SPECIALTY.

We are ready to quote prices on Apple Seedlings for Fall and Winter delivery.

WILL MAKE LOW PRICES FOR EARLY ORDERS.

Our high standard of grading will please.

Our Apple Seedlings are on new land, this being the first crop of nursery stock planted on the soil, which insures healthy plants.

All styles of Root Grafts made to order.

Correspondence solicited.

When writing to Advertisers mention The National Nurseryman.

Established 1875

Mount Arbor Nurseries

E. S. WELCH, Proprietor

Shenandoah, Iowa

OFFER FOR SEASON 1904-5

**GRAFTS
SEEDLINGS
SCIONS**

And a Complete Line of General Nursery Stock

Orders booked and full assortment placed in storage for early spring shipment.

WE ISSUE THREE WHOLESALE PRICE LISTS EACH YEAR

FALL

(In September)

WINTER

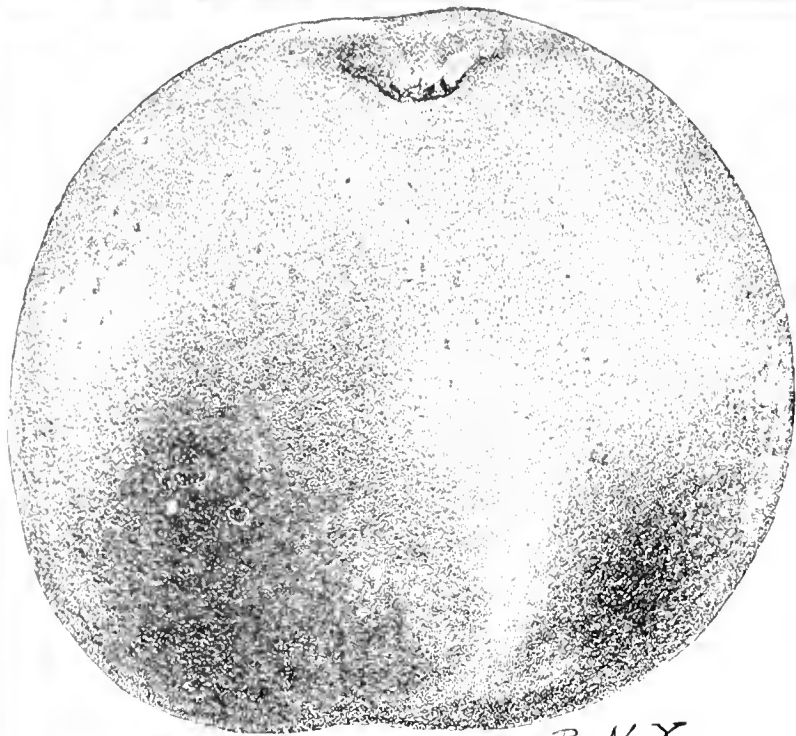
(In December)

SPRING

(In February)

We want your name and address if you are not receiving these lists regularly.

When writing to Advertisers mention The National Nurseryman.



Ready to Ship APPLE TREES

*Two and three year GRAFTS,
CLEAN, SMOOTH and HEALTHY.
No finer trees can be found and the
price is low considering quality.*

R.N.Y.
List of Varieties of Apples. The Ones Marked With "X" Are the Ones We Are Long On

Autumn Strawberry
Aiken
Arkansas Black
Alexander
American Golden Russett
Baldwin
xxx Ben Davis
Bell de Boscoop
Belmont
Bailey's Sweet
Boiken
Benoni
Bismarek
Cole
Coffelet Beauty
Canada Red
Clark's Orange
Chase's Jelly
Cart House
xx Dutchess
Detroit Red
Dominie
Early Pennock
Eusopus Spitzenburg
Early Colton
xx Early Harvest
x Fallawater
Flora Bell
Fourth of July
Fameuse
Fall Pippin
Fays
x Grimes' Golden
xxx Gano
Gen. Grant
Golden Sweet
Grindstone
Gravenstein
Huntsman's Favorite
x Hubbardston's Nonsuch
x Haas
Hurlburt
Hyslop
Hibernal
Iowa Blush
Ingram
Jonathan
Jersey Sweet
Jeffries
Jacob's Sweet
xx King
Kentucky Red Streak
Kennard's Choice
Lowell
x Loy
Longfield
Lansingburg
x Lawyer
x Lankford Seedling
xx M. B. Twig
x Maiden's Blush
x Mo. Pippin
McIntosh Red

SURPLUS LIST

We have a little surplus in a few varieties as follows:

	³ / ₄ 5 to 7 ft.	⁵ / ₈ 5 to 6 ft.	⁹ / ₁₆ 4 to 6 ft.	¹ / ₂ 4 to 5 ft.	³ / ₈ 3 to 4 ft.
Baldwin	1000	3000	3000	3000	1000
Ben Davis	15000	5000	5000	4000	1000
Stark	1000	5000	3000	3000	2000
York Imperial	1000	4000	4000	4000	2000
M. B. Twig	1000	1000	1000	1000	1000
N. W. Greening	15000	10000	5000	2000	1000
Grimes Golden	500	500	500	500	500
Gano	1000	1000	1000	1000	1000
King	500	500	500	500	500
Lankford Seedling	500	500	500	500	500
Pewaukee	—	500	500	500	500
R. I. Greening	1000	1000	1000	1000	1000
Winesap	1000	1000	1000	1000	1000

In addition to this we have small quantities of other varieties. We have a surplus in peach of Crawford Late and Chri's Choice; also

5,000 Keiffer pear trees 3-4 and up.

1,000 Keiffer pear trees 5-8 to 3-4.

Black Walnuts 4 to 5 ft. Norway Maples 7 to 8 ft. and 8 to 10 ft. Silver Maples 6 to 7 ft. 7 to 8 ft. and 8 to 10 ft. Carolina Poplars 6 to 7 ft., 7 to 8 ft. and 8 to 10 ft.

PEACH TREES

General List of Varieties, Grown on Virgin Soil

CLEAN, SMOOTH AND HEALTHY

KIEFFER PEAR TREES

Grafted on French Root

WILL QUOTE PRICES ON APPLICATION.

PERSONAL INSPECTION INVITED.

J. G. HARRISON & SONS
Berlin, Md.

Montreal Beauty
Milan
x Mann
Minkler
Martha
xxx N. W. Greening
Newtown Pippin
x Northern Spy
Nero
Ohio Nonpareil
Porter
Pound Sweet
Price's Sweet
Peck's Pleasant
Primate
Plum Cider
x Pewaukee
x R. I. Greening
xx Rome Beauty
Roxbury Russett
x Red Astrachan
Red June
Roman Stem
Rawles' Janet
Rolfe
Romanite
Red Beiteigheimer
xx Stark
Stayman's Wine Sap
Summer Rambo
x Sutton's Beauty
Salome
Seek No Further
Shackelford
Swaar
Scott's Winter
Stewart's Golden
Starr
x Smith's Cider
x Twenty Ounce
Talpehocken
Transcendent
x Tallman's Sweet
Utter's Red
Virginia Beauty
Vandevere Pippin
White Arctic
Winter Banana
W. S. Paradise
Wealthy
Wolf River
Whitney
x Wagner
x Winter Rambo
Walbridge
Winter Blush
Wisner
x Willow Twig
x Wine Sap
White Pippin
x York Imperial
xx Yellow Transparent
x Yellow Bellflower

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U. S. Department of Agriculture.



December, 1904

Homes in the South

There are in the Southern States awaiting development, thousands of acres of uncultivated farm lands in tracts of all sizes, which can be purchased very cheaply. They are productive, healthy, and close to good markets. In ten States reached by the lines of the

Southern Railway

For information about opportunities now available, prices of land, character of soils, etc., write to

M. V. RICHARDS

Land and Industrial Agent

Washington, D. C., Southern R'y

Free on Board (f.o.b.) St. Louis

ARID CLIMATE

ROSE BUSHES

FIELD GROWN
OWN ROOTS

Write for printed prices and list of varieties.
Choice assortment leading kinds.

SPRING SHIPMENTS ONLY.

CHASE ROSE CO.

INCORPORATED

RIVERSIDE, CALIFORNIA

When writing to Advertisers mention The National Nurseryman.

The L. Green & Son Co.

PERRY, LAKE CO., OHIO.

Offer to the trade a very complete assortment of

Nursery and Landscape Gardener's Stock

IN SURPLUS—

American Sweet Chestnut, 4 to 5 ft., 5 to 6 ft. and 6 to 8 ft.

Carolina Poplar, all sizes, and other Deciduous Trees

Nice line of Shrubs, Herbaceous and Perennial Plants.

Please send us your want list as well as your surplus.

STANDARDS STANDARDS Of

Currants and Gooseberries

Straight Stems 3-4 ft. high, grafted on Ribes.
Strong Heads. Best Varieties.

Also

Roses, Standards correct trimmed Fruit Trees, Etc.

Please write and get my prices before ordering elsewhere.

B. Muellerklein's Nurseries

Karlstadt (near Frankfort Main, Germany)

When writing to Advertisers mention The National Nurseryman.

Painesville Nurseries

OFFER ONE OF THE LARGEST AND MOST COMPLETE ASSORTMENTS OF NURSERY
AND FLORISTS' STOCK IN THE UNITED STATES, INCLUDING

**Fruit and Nut Trees, Deciduous and Ever-
green Trees and Shrubs, Roses, Hardy Vines
and Plants, Small Fruits and Grape Vines,
Tender Plants, Bulbs and Seeds** ♡ ♡ ♡ ♡

SOME FINE STOCK ON WHICH WE CAN QUOTE LOW RATES IN
**Elms, Willows, Poplars, Philadelphus-Deutzias, Tree and Bush Hy-
drangea, Thunbergs Berberry, Climbing Honeysuckles and Ampe-
lopsiis Veitchii.**

An extra fine lot of **Tree Roses** for fall delivery. Hardy, home-grown **Field
Roses**—largest and best stock in country.

Immense stock of **Grape Vines** and **Small Fruits, Currents, Root-
Cutting Blackberries**, etc., in large assortment of varieties graded right.

Azalias, Palms, Ficus, Araucarias and other Decorative Plants in large
supply. **French, Holland, Japan** and **Bermuda Bulbs**—direct importations
from the best growers.

Pleased to price your list of wants or to show you our stock. Special inducements
for car lots on Fall delivery or stored for Spring shipments. If you have not received
our fiftieth anniversary descriptive catalog, send for it.

Catalogs and Price Lists free.

50 YEARS. 1200 ACRES. 44 GREENHOUSES.

The Storrs & Harrison Co.,
PAINESVILLE, OHIO.

PIN OAKS ORIENTAL PLANES WILLOWS

LAUREL-LEAVED
AND OTHERS

ALSO

GENERAL NURSERY STOCK

The Finest Collections in America.

Catalogue on Request.

Ellwanger & Barry,

MT. HOPE
NURSERIES

Rochester, N. Y.

\$40,000 FRUIT FARMERS

Are good customers for nurserymen. No need to waste time and money to convince them that they ought to plant fruit trees and plants—they are already interested in this work.

THE FRUIT-GROWER

ST. JOSEPH, MISSOURI

circulates 40,000 papers every month among this desirable class of customers. Every reader grows fruit. For nursery advertising, therefore, The Fruit-Grower is the best advertising medium in the country because it has no waste circulation, and the circulation is guaranteed

Advertising Rate, 20c. Line; \$2.80 Inch.

It would cost a nurseryman \$400.00 for postage alone to send circulars to 40,000 fruit farmers; to this must be added the cost of printing, etc., or say nothing of the expense of securing this many good names.

The Fruit-Grower will place your advertisement before this number of desirable customers for \$2.80 per inch, or a full page (9x14 inches, for \$120. Where else can you get such cheap, effective advertising?

Remember the special issues of the Fruit Grower: January, 1905, "Anniversary Number;" February, "Spraying;" March, "Gardening;" April, "Small Fruits;"—the best papers ever printed. Commencing with October issue, all states East of Ohio will receive our EASTERN EDITION. Send copy for your advertisement today.

THE FRUIT-GROWER CO.
331 S SEVENTH ST.,
ST. JOSEPH, MO.



BROTHER JONATHAN—Trade Mark.

When writing to Advertisers mention The National Nurseryman.

1904 CROP APPLE SEED

FRENCH OR VERMONT.

EARLY WINTER DELIVERY.

A FEW OF OUR SPECIALTIES.

ROSES, Crimson Rambler, Dorothy Perkins, H. P's
AMPELOP3IS VEITCHII, 2 years and 3 years.
CLEMATIS, Leading large flowering varieties.
BERBERIES, Purple-leaved and Thunbergii.
HYDRANGEA PANICULATA GRANDIFLORA, Standards and Bush-form.
HONEYSUCKLES, Climbing and Upright.
JAPAN QUINCE, Large stock, strong plants.
PRIVET, CALIFORNIA, Transplanted, very bushy.
PAEONIAS, Large roots, best varieties.
SNOWBALLS, Common.

Send us list of your wants for quotation.

"New Price List ready about December 15th. If not received, write for a copy. Use printed stationery. Sent only to the trade."

JACKSON & PERKINS CO.

NEWARK, NEW YORK

Specialties for Fall

CHERRIES. PLUMS. MULBERRIES.
WALNUS—ENGLISH AND JAPAN. PECANS.

EXOCHORDA. LILACS. LONICERAS.

HYDRANGEAS—Field Grown, Strong.

THOS. HOGG, ROSEA, ETC.

CAMELLIAS, AZALEAS, GARDENIAS, MAGNOLIAS.

HEDGE PLANTS:

CALIFORNIA PRIVET IN LARGE QUANTITIES.
CITRUS TRIFOLIATA. BERBERIS THUNBERGII.

SPIROEA THUNBERGII.

BIOTA AUREA NANA. CEDRUS DEODARA.

LIBOCEDRUS DECURRENS.

JUNIPERS. RETINOSPORAS.

ORANGES, LEMONS AND OTHER CITRUS FRUITS.

300,000 PALMS.

KENTIAS, LATANIAS, PHOENIX.

FIELD GROWN ROSES—Own Roots and Budded.

NO SCALE and Everything Healthy and Well Grown.

P. J. BERCKMANS COMPANY, Inc.

FRUITLAND NURSERIES, AUGUSTA, GA.

Est. 1856

Over 450 Acres in Nursery

When writing to Advertisers mention The National Nurseryman.

FRUIT AND PLANT NOTES.

AKIN APPLE.

We were interested quite a little in this apple some years ago about the time the Illinois State Society awarded it a premium as the most promising new apple. We have sent out a good many of the trees and while it is a pretty fair apple we find at its old home that it is inclined to be rather tardy and shy bearer. The tree is not desirable because it grows very upright like a Lombardy Poplar therefore we are working out of the sort, because we have apples which we consider far better in every respect. The Bayard also of Illinois also a seedling of the Milam is even a handsome more beautiful apple than the Akin, more regular and probably the better of the two.

STARK BROS.,
Nurseries & Orchards Co.

Some men will seek patiently for an excuse to do wrong when the reason for doing right is in plain sight.

We are always apt to think him a good conversationalist who patiently listens to all we have to say.

You have good reason to doubt the patriotism of the man who asks, "Will it pay?" instead of asking, "Is it right?"—*Stolen Nuggets.*

WANTED To purchase a RETAIL AGENCY NURSERY BUSINESS

for cash. Correspondence confidential.

Address, "GROWER"

Care of NATIONAL NURSERYMAN.

YOUNGERS & CO.

GENEVA, N.E.B.

HAVE A SURPLUS OF APPLE and AMERICAN PLUM TREES

Also the following varieties of Seedlings, well graded:

Apple
Black Locust
Catalpa
elm

Mulberry
Maple
Osage
Walnut

ORNAMENTALS

Hydrangeas
Tartarian Honeysuckles
Tamarix Amurinsis

Snowballs
Spireas
Roses

ThurLOW Willow 5 to 6 ft., and 6 to 8 ft.
Russian Mulberry, 4 to 5 ft., and 5 to 6 ft.
All styles of Root Grafts made to order.

Will Make Low Prices

CORRESPONDENCE SOLICITED.

WHOLESALE ONLY.

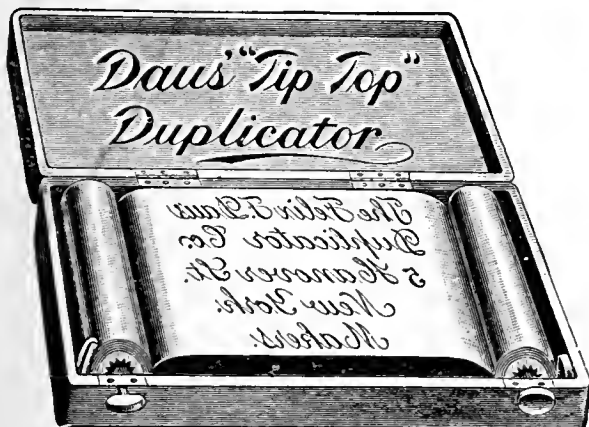
FOR FALL 1904 WE OFFER A GENERAL ASSORTMENT OF WELL GROWN STOCK

Apple, Pear, Cherry, Plum,
California Privet 1 and 2 year, Asparagus, Osage Orange,
Shade Trees in large sizes, Fine Stock
of Shrubs, Roses, Etc.

Peach Seed Crop 1904

Write for Prices

Franklin Davis Nursery Co. : BALTIMORE, Md.



What Is Daus' Tip-Top?

TO PROVE

that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

100 copies from Pen-written and 50 copies from Type-written original

we are willing to send a complete "Duplicator" without deposit on TEN DAYS trial if you mention The National Nurseryman

No mechanism to get out of order, no washing no press, no printer's ink. The product of 23 year's experience in Duplicators. Price for complete apparatus, cap size (prints 8 1/4 in. by

13 in.) \$7.50, subject to the trade discount of 33 1/3 per cent.—\$5.00 NET.

FELIX A. M. DAUS DUPLICATOR CO., Daus Building, 111 John Street, New York.

ELMIRE SEBIRE

FILS AINE, USSY, CALVADOS, FRANCE

GROWER AND SHIPPER OF **NURSERY STOCK**
Ornamentals, Trees and Shrubs, Evergreens, Conifers. Forest Trees for Spring
or Fall shipment. *Send for estimates to our sole American Agents.*

P. O. Box 752

AUGUST ROLKER & SON | 31 BARCLAY ST., NEW YORK

Importers of Nursery Stocks, Fruit and Tree Seeds.

RAFFIA FIBRE in prime Nurserymen's quality.

When writing to Advertisers mention The National Nurseryman.

Established 1875

Mount Arbor Nurseries

E. S. WELCH, Proprietor

Shenandoah, Iowa

OFFER FOR SEASON 1904-5

GRAFTS SEEDLINGS SCIONS

And a Complete Line of General Nursery Stock

Orders booked and full assortment placed in storage for early spring shipment.

WE ISSUE THREE WHOLESALE PRICE LISTS EACH YEAR

FALL	WINTER	SPRING
(In September)	(In December)	(In February)

We want your name and address if you are not receiving these lists regularly.

STARK BRO'S NURSERIES & ORCHARDS CO

CAPITAL STOCK, \$1,000,000.00

GENERAL OFFICES and Nurseries, LOUISIANA, MO.

Branch Nurseries: Starkdale, Mo. Fayetteville, Ark.
Atlantic, Iowa Dansville, N. Y. Portland, N. Y.

The Oldest
Nurseries
In the West



The Largest
Nurseries
In the World

Particular attention is called to our fine stocks of

APPLE SEEDLINGS, Iowa grown, from Vermont seed; extra fine
PEAR (Japan and French), CHERRY and PLUM SEEDLINGS
CURRANT, GOOSEBERRY, BLACKBERRY, RASPBERRY, DEWBERRY
BUDDED LILACS, superb new sorts, single and double, various colors
BECHTEL and PARKMANI DOUBLE-FLOWERED CRABS
PRUNUS PISSARDI, PRUNUS TRILOBA, EUROPEAN WHITE BIRCH
MAPLE (Norway and Silver), CAROLINA POPLAR, MULBERRY, etc.

GRAPE VINES:—An exceptionally large and fine stock of the leading commercial sorts, grown in our Portland N. Y. Grape Nurseries. We invite comparison of quantity, quality, grades and prices. Can ship from Portland or Louisiana as preferred.

We make a specialty of Carload Lots of Apple, Peach, Plum, Cherry, Standard and Dwarf Pear, Grape, etc., for the trade. Our immense storage capacity and unexcelled R. R. facilities enable prompt shipment at any time during the season. Freight rates from Louisiana, Mo., are very low, being on St. Louis basis.

McHUTCHISON & CO.

218 Fulton Street, NEW YORK

Sole American Agents for

VINCENT LEBRETON,

La Pyramide, Angers, FRANCE.

French Fruit and Ornamental Seedlings, Manetti,
Multiflora, Etc.

H. W. VAN DER BOM & CO.,

Oudenbosch, HOLLAND.

Large Evergreens, Conifers, Transplanted Flowering Shrubs,
Apple Stocks, Norway Maples, Etc.

SCHAUM & VAN TOL,

Boskoop, HOLLAND.

Dwarf and Standard Roses, Peonies, Clematis, Evergreens
Hardy Azaleas and General Boskoop Nursery Stock.

RED STAR RAFFIA.

Best grade selected for Nurserymen. In stock or price quoted
for ten or more bales for direct import.

Write for Prices. Send for Catalogue of above Firms.

McHUTCHISON & CO.

218 FULTON STREET, NEW YORK

CUSTOM HOUSE BROKERS AND FORWARDERS

When writing to Advertisers mention The National Nurseryman.

North Carolina and Tennessee

Natural Peach Pits.

JOHN A. YOUNG

Greensboro, N. C.

Snow Hill Nurseries

W. M. PETERS SONS

R. F. D.

SNOW HILL, MD

OFFERS

Peach and Apple Trees

California Privet

1-7 2 Year Old Strong.

Grape Vines

1 and 2 Year Old.

Asparagus Roots

2 Year Strong.

Strawberry Plants

From Plants planted Spring 1903.

CORRESPONDENCE SOLICITED.

When writing to Advertisers mention The National Nurseryman.

NORWAY MAPLES and ORIENTAL PLANES.

1 3/4 to 2 inch Calliper, 10 to 12 feet. Fine straight bodies. Transplanted.

H. W. VAN DER BOM & CO., HOLLAND.

McHUTCHISON & CO.,

Sole Agents.

218 FULTON STREET, NEW YORK.

XENIA STAR NURSERIES.

Submit your want list, (actual or estimated) for special prices on

Apple, Pear, Cherry, Plum, Peach,

Also Grape Vines, Small Fruits, Shade and Ornamental Trees, Shrubs, etc. Opalescent Apples. Western Grown Apple Seedlings.

McNARY & GAINES, XENIA, OHIO.

We can now make you satisfactory prices on **Apple and Pear Seedlings.**

Write us, we can tell you something that will please you.

N. E. COPELAND, Oakland, Kan.

APPLE We offer for Fall a general assortment of Apples, 2 and 3 years, 3/4 and up, also 5/8 and up, in 80 kinds.

PEACH In good assortment 9/16 and up, also 3 to 4 ft. grade.

CALIFORNIA PRIVET 2 and 3 years old.

West Jersey Nurseries

STANTON B. COLE

BRIDGETON, N. J.

**Apple Trees, Root Grafts,
Apple Seedlings and Scions**

Get our **ORIGINAL** prices on the above stock

Address **JACKSON COUNTY NURSERY CO.,** Lee's Summit Mo.

Vincennes Nurseries

W. C. REED, VINCENNES, IND.

We offer for Fall of 1904 the following in Car Lots:

Apple 2 and 3 year. Pear Std. and Dwf. Cherry 1 and 2 year. Plum 1 and 2 year; Japan and European. Peach 1 year. Soft Maple, Elm, Box Alder, Ash and Wiers Cut Leaf Maple.

Also Nice Stock of Roses, Shrubs and Small Fruits. Personal inspection invited.

We Offer for Fall Large Stock June Bud Peach and Plum

We also offer fine lot of Kansas grown 2-year Apple of assorted varieties, about 50,000 at very close prices F. O. B.

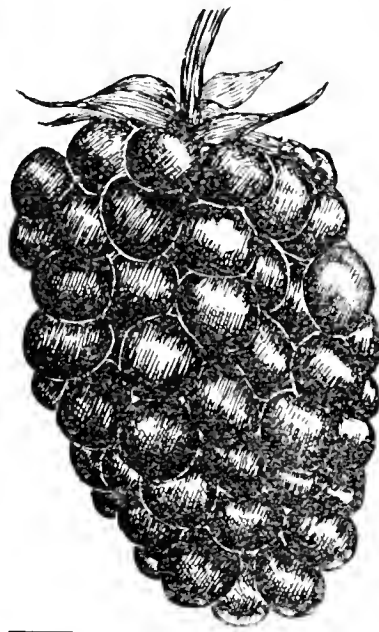
50,000 3/16 and up Kansas grown Apple Seedlings.

A nice lot of 1-year Peach and Cherry. Also Southern Mountain natural Peach Seed for shipment from our Nurseries.

We offer Nurserymen and the trade inducements. Prices on Strawberry Plants, June Buds and 1 year Peach. Write us.

Chattanooga Nurseries

CHATTANOOGA, TENN.



STRAWBERRY and RASPBERRY plans of all the new and old sorts in large or small quantity.

PREMO DEWBERRY. No one can afford to miss giving this a trial.

ELDORADO, MAXWELL and ICEBERG BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,

BRIDGEVILLE, DEL.

AT GRIFFING'S NURSERIES

Budded Pecan Trees

Japan Persimmon, Japan Walnut, Fig Trees and Muscadine Grape Vines

Are leaders to the trade this year.

We also offer a general line of Nursery Stock, including Fruit and Ornamental Trees, Shubbery, Field-Grown Roses, Etc., Etc. Prices always right.

THE GRIFFING BROS. CO.

JACKSONVILLE, Fla.

We are headquarters for *Stokesia Cyanea* and *Liatus Gracilis*

The two best hardy plants of recent introduction. Every nurseryman should carry a line of them. We also grow Cannos, Roses, Gladioli and other ornamental stock. Write us for lists.

SOUTH FLORAL NURSERY CO., Fruitdale, Ala.



HARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2 1/2-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also, for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of

Beacon Building,

Highlands Nursery, N. C.

BOSTON, MASS.

LABELS FOR NURSERYMEN.

Benjamin Chase, Derry, N. H.

When writing to Advertisers mention The National Nurseryman.

JAPANESE SPECIALTIES

ORDER NOW
FOR
SPRING DELIVERY

Direct from our own Nurseries in Yokohama and
Tokio, Japan.

NURSERY STOCK,
ORNAMENTAL TREES AND
SHRUBS,
TREE AND HERBACEOUS
PAEONIES,
IRIS KÆMPFERII, the Latest
Varieties,
LILIES, ETC.

Write for Our Trade List.
SPECIAL PRICES FOR LARGE QUANTITIES
and Hand Colored Plates for Inspection
on Demand.

Suzuki & Iida

31 Barclay Street, NEW YORK
21-35 Nakamuramachi, YOKOHAMA

ROSES FOR LINING OUT

We are the Largest Growers
of ROSES in the World,

and sell annually to Nurserymen several mil-
lion Roses for lining out in nursery rows. If
you are in the market for such stock, you
had better try us. Send us a list of the
varieties and number of each you will
desire and we will be glad to send you
prices for next spring delivery. . . .

Our Wholesale Catalogue

will be mailed you on application. This
will give you a list of the varieties we
have to offer.

Our Roses Will Grow For You.

THE GOOD & RFESE CO.

SPRINGFIELD, OHIO,

The Largest Rose Growers in the World.

CURRENT PLANTS

AND

GRAPE VINES

Highest Standard of Grades. Largest Stock and
Lowest Prices. Correspondence solicited.

WHEELOCK & CLARK

FREDONIA, N. Y.

Pears! Pears! Pears!

BARTLETT PEARS. One
two and three year old, as
fine as can be grown. Will
exchange for Peaches, or sell at a very low figure. Write for
prices in car or part car lots.

DAVIS COUNTY NURSERIES,

Harness, Dix & Co., Prop.

35-36 Hooper Bldg, Salt Lake City, Utah.

VICTOR DÉTRICHÉ, ANGERS, FRANCE

Wholesale Grower and Exporter of

Fruit Stocks, Forest and Ornamental
Trees, Shrubs and Conifers, Etc.

Advance List for Fruit Stock now ready. Liberal percentage of
Mahalab and Mazzard Cherries allowed.

CHAS. F. MEYER,

Sole Agent for the United States
and Canada.

99 WARREN STREET, NEW YORK.

When writing to Advertisers mention The National Nurseryman.

New Haven Nurseries

J. BAGBY & SONS CO.

NEW HAVEN, MO.

OFFER TO THE TRADE

50,000 3 Year Apple, very fine 3-4 and up, mostly
Ben Davis and Baldwin.

250,000 2 Year Apple, mostly in grades under 3-4.

500,000 Peach, 1 Year from bud, extra quality. Over
200,000 Elberta. All exceptionally well rooted.
Varieties true.

20,000 Cherry, 2 Year, unexcelled in quality. Mostly
Richmond, Wragg and Baldwin.

42,000 1 Year from bud Japan Plum on Plum.

60,000 1 Year Cherry, full assortment of varieties.

Write us for prices on your wants.

All our Stock is grown at New Haven, Mo., 67 miles
West of St. Louis.

St. Louis Freight Rates will Apply.

When writing to Advertisers mention The National Nurseryman.

4,000,000 PEACH TREES

SIDE LINE

300,000

2 Year Apple
Assorted Varieties.

100,000

1 Year Kieffer Pear

100,000

Assorted Cherry
1 Year Buds.

50,000

1 Year Plum

50,000

June Budded Plum

See me or write for
prices before you place
your order.

TENNESSEE WHOLESALE NURSERIES

WINCHESTER, TENN.

J. C. HALE, Prop.

**Largest Stock of Peach
in the United States**

JUNE BUDS A SPECIALTY

Am now ready to book
orders for delivery,
Fall 1904 and Spring
1905.

BOX STRAPS. Uncut Lengths. 28 in. and 63 in. SHORTER LENGTHS TO ORDER.

Soft tough strip steel. Can drive a nail through the Straps without previous punching. Cheapest and best Straps for Nurserymen on the U. S. market. Write for sample and prices.

References—Nurserymen Generally.

WARD-DICKEY STEEL CO.,

Manufacturers of
PLANISHED SHEET STEEL.

Indiana Harbor, Ind.

FREDONIA GROWN GRAPE VINES Known the world over.

All standard varieties, warranted true, grade unsurpassed. Immense stock, 1 and 2 years. Fine stock Currants, Cherries, Pears, Plums, Etc. All orders large or small cared for in a substantial manner. Give us a trial order. Send list of wants for prices.

FOSTER & GRIFFITH, FREDONIA, N. Y.

POTS! POTS! POTS!

We are manufacturers of **Standard Flower Pots** equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY, 213-23 Pearl Street
NORRISTOWN, PA.

CHARLES DÉTRICHÉ, Senior
ANGERS, FRANCE

**GROWER AND EXPORTER
OF FRUIT TREE STOCKS
FOREST TREES AND
ORNAMENTALS**

Extra Large Assortments of Shrubs, Conifers, etc.
Prices on Application.

JACKSON & PERKINS CO.,
NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON, CHATENAY SEINE,
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GROWER AND EXPORTER OF

**French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc Fruit Tree Stocks.**

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks,
Trees and Shrubs.

GEO. E. DICKINSON, 1 BROADWAY, NEW YORK

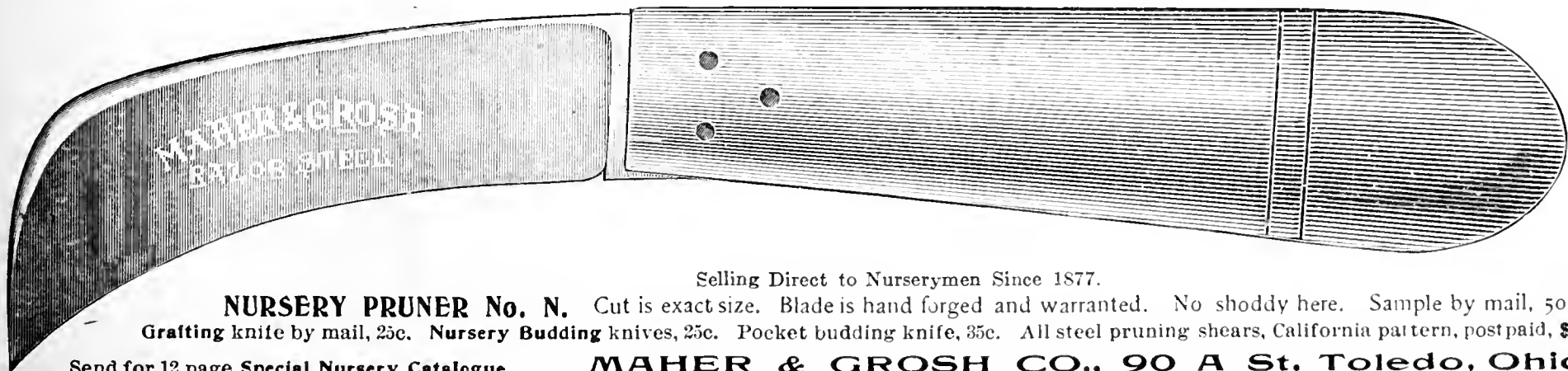
WE MAKE A SPECIALTY OF GROWING

Catalpas, Tree and Shrub Seeds, Russian Mulberry, Red Bud, Green Ash, Box Elder, Sweet Gum, American Persimmon, Walnuts, Birches, Beeches, Sycamores, Altheas, Lindens, and a general line of nursery-grown and Collected Seedlings for Nurserymen's planting.

It will pay you to get my prices before ordering elsewhere.

FOREST NURSERY & SEED CO.

Irving College, Tenn., Warren County.



Selling Direct to Nurserymen Since 1877.

NURSERY PRUNER No. N. Cut is exact size. Blade is hand forged and warranted. No shoddy here. Sample by mail, 50c. Grafting knife by mail, 25c. Nursery Budding knives, 25c. Pocket budding knife, 35c. All steel pruning shears, California pattern, postpaid, \$1.

Send for 12 page Special Nursery Catalogue

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Established 1780.

Andre LeRoy Nurseries

Brault & Son, Directors,

Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1904, AND SPRING, 1905

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 Hudson St., New York City.

The H. S. Taylor Nursery Co.

ROCHESTER, N. Y.

We offer a full and complete line of fruit and ornamental stock for Spring of 1904. Send list of wants for quotations. Special facilities for dealers billing out on our grounds.

All sizes of Ash Leaf
Maple, Silver Maple,
Weirs C. L. Maple,
Am. Elm, Carolina
Poplars.



Several thousand trees
in this block which
must be cleared this
Spring. We can give
extremely low prices.

Nurseries at Brighton, N. Y. Address all Correspondence, Rochester, N. Y.

NURSERYMEN'S STOCK BOOK

Revised and enlarged, 86 pages, names of varieties printed with blank spaces for additions, ledger paper, well bound in heavy tag board; price \$2.00.

SCRANTON, WETMORE & CO.,
Commercial Stationers, Rochester, N. Y.

PECAN TREES AND NUTS

BUDDED, GRAFTED and SEEDLING TREES. Twenty-seven Varieties. Trees in sizes from 6 inches to 6 feet and over. Wholesale and Retail.

ONE, TWO AND THREE YEAR OLD TREES.

A visit to our Groves and Nurseries will interest you. 700 acres in Pecans. Illustrated catalogue sent on application.

The G. M. Bacon Pecan Company, Inc.,
DEWITT, GA.

1851

1904

KNOX NURSERIES

We offer for Fall of 1904 a large number of our well known ONE YEAR CHERRY, two year Cherry, Peach, Apple and a general line. Also have a lot of Fine Norway Spruce 2-3 ft. Will make Special Inducements for early orders of Cherry and Peach. Personal inspection invited. Correspondence solicited.

H. M. SIMPSON & SONS,
VINCENNES, IND.

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F. H. Stannard & Co.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS

Have for sale a large and complete assortment of Nursery Stock, strong on

*Apple, Cherry, Pear
Plum, Peach, Apricots
Forest Tree Seed-
lings, Apple Scions.*

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs

DREER SPECIALS

For Fall 1904.

Herbaceous Paeonies.

A large stock of all the leading varieties at correct prices.

Hardy Phlox.

About 150,000 one year field grown plants in stock, the best Standard Varieties can be supplied in unlimited quantity.

Large stocks of all the popular Perennials including

ASTERS.	HEMEROCALLIS,
CAMPANULAS,	HELENIUMS,
COREOPSIS,	HYPERICUMS,
DIANTHUS,	POPPIES,
DELPHINIUMS,	RUDBECKIAS,
FUNKIAS,	STOKESIAS,
GAILLARDIAS,	TRITOMAS,
HELIANTHUS,	Etc., Etc.

Special list and prices on Paeonies and Phlox mailed on application.

HENRY A. DREER,
714 Chestnut St, Philadelphia, Pa.

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Berberis Thunbergii AND OTHER Seedlings

FOR LINING OUT

Large Stock. Nursery Grown. Carefully Graded. Prices Reasonable.
Place orders now for Spring delivery. Wholesale trade list on application

BAY STATE NURSERIES, North Abington, Mass.

Apple and Peach Trees. New England Grown. A good assortment for Fall and Spring delivery. A Complete Line of Other Stock. Write for Close Prices.

THE OAKLAND NURSERIES, C. R. BURR, Prop.
Manchester, Conn.

CAROLINA POPLARS

AND

SILVER LEAF MAPLES

In Large or Small Quantities. Write for Prices

MILLS-DALE NURSERY (Inc.)

GREENVILLE, S. C.

WANTED A SOBER INDUSTRIOUS FOREMAN, who understands how to raise Nursery Stock and handle men; unmarried preferred. Must furnish good references. Address, DAVIS COUNTY NURSERIES, Salt Lake City, Utah.

I Was in it Last Year--The Great May Flood

I Am in it This Year--The Seedling Trade.

Come and See Me.

Write for Prices on both

Apple and Japan Pear Seedling

I have a large stock of both French and American Apple Seedlings to offer the trade.

I also offer for the Fall of 1904 and Spring of 1905 a fine lot of . . .

1 and 2 Year Apple

Won't You Kindly Divide Your Orders with me. It will do us Both Good

A. L. BROOKE, PROP.,

North Topeka Nurseries

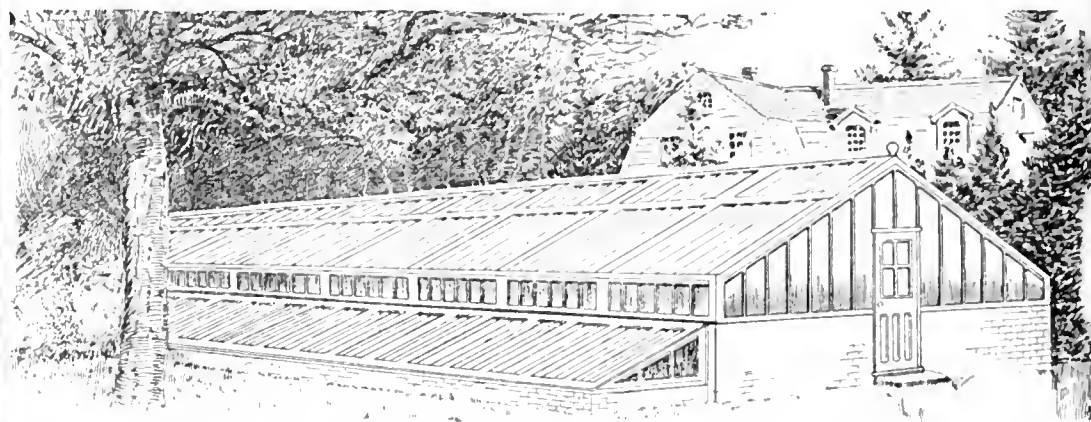
North Topeka and - - Grantville, Kansas

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BUILD THE BEST GREENHOUSES

And so increase your profits



WRITE TO-DAY TO OUR N. Y. OFFICE enclosing five cents postage for Construction Catalogue of "up-to-date" Greenhouses.

We make them with both iron and wooden frames. We can erect your houses or supply the material fitted. Our houses are light and durable. Perfectly heated and ventilated.

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New York Office:
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General Office and Works:
Irvington-on-Hudson, New York



P. Sebire & Sons, Nurserymen, Ussy, Calvados, France.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myroblan Plum, Mahaleb and Mazzard Cherry, Angers, Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, &c. The largest stock in the country. Prices very low. Packing secured. Send for quotations before placing your orders elsewhere. Catalogue free. Agents for United States and Canada.

C. C. ABEL & CO., P. O. Box 920 New York

Peters & Skinner

PROPRIETORS

Capital Nurseries

NORTH TOPEKA, KANSAS

HAVE TO OFFER

Apple Seedling Pear Seedling

Apple, Peach and Cherry Trees

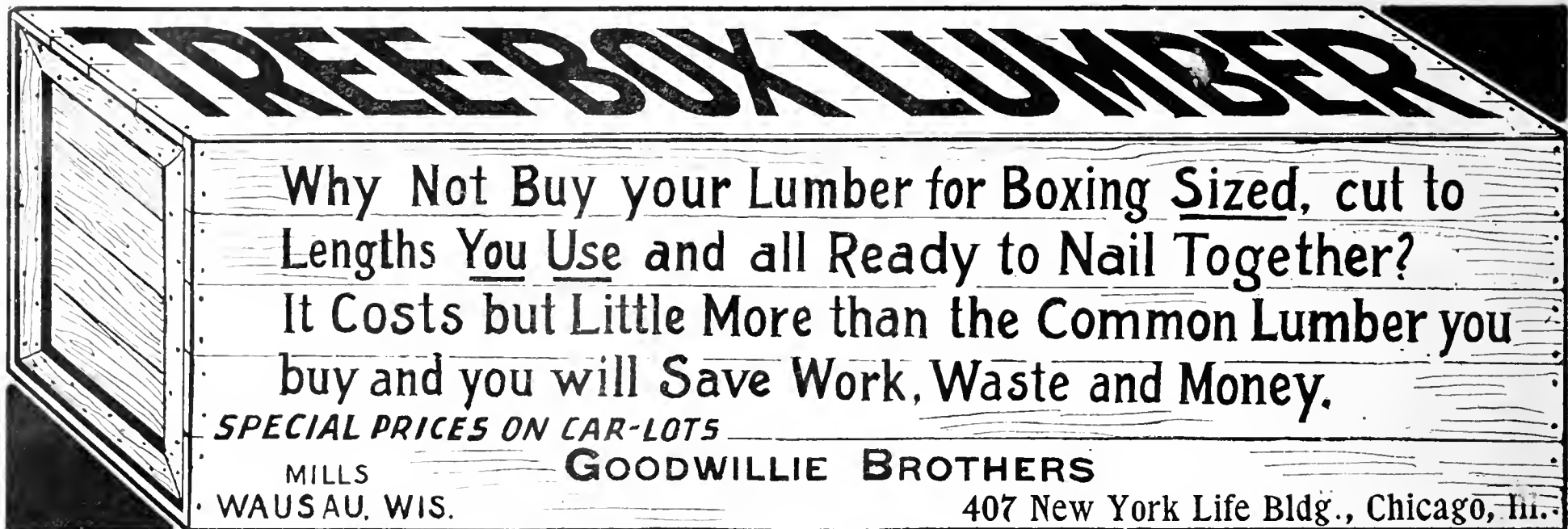
Keiffer Pear

Bechtel's Double Flowering Crab

Grape Vines Flowering Shrubs

Shade Trees

When writing to Advertisers mention The National Nurseryman.



TREE BOX LUMBER

Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together? It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS **GOODWILLIE BROTHERS**
WAUSAU, WIS. 407 New York Life Bldg., Chicago, Ill.

The Fraser Nursery

JOHN FRASER, PROP.
HUNTSVILLE, ALA.

I will commence June Budding the end of May. I offer to grow special orders of June Buds of PLUM AND PEACH for next fall delivery. I have a complete assortment of varieties true to name.

I ALSO OFFER FOR FALL,

STANDARD PEAR, one and two years. CHERRY, one and two years; PECANS, one and two years; MULBERRYS, one year, large grades; MAGNOLIA GRANDIFLORA, three years; CALIFORNIA PRIVET, one year; MANETTI, MULTIFLORA and MARIANA STOCKS. DWARF BOX, H. P. MOSS, PLANTIER, NEIL and PRAIRIE ROSES.

WRITE FOR PRICES.

ESTABLISHED 1876.

Jas. M. Kennedy, Nurseryman
DANVILLE, N. Y.

I have to offer for Fall and Spring a full line of Fruit Trees. Apple, Pear, Plum, Cherry and Quince, both one and two years. It will pay you to get my prices before placing your order elsewhere.

Easterly Nursery Co

(INCORPORATED)

CLEVELAND, TENN.

Offer for Fall and Spring Shipment

1,100,000 June Bud Peach, all standard commercial varieties.

100,000 Apple, assorted varieties, 2 to 3, 3 to 4, and 4 to 5 ft.

Pecan Trees and Crimson Rambler, Roses, at prices that must move them.

If in need of any of this stock it will pay you to get our prices.

Black Locust Mulberry

APPLE AND PEAR Seedlings in good supply.

J. A. GAGE, Beatrice, Neb.

When writing to Advertisers mention The National Nurseryman.

Honey, Locust, Ash, Box Elder, Maple, Catalpa and Elm Seedlings. Asparagus, Rhubarb, Strawberries.

Choice Nursery Stock FOR SALE

15,000 Apple Trees, 5-8 to 3-4, for sale cheap.

100,000 California Privet, from 1 to 3 ft.

10,000 Hydrangea Paniculata, both bush and tree form.

Also a large stock of Forest Trees, White, Austrian and Scotch Pine of all sizes. Address:

THE STEPHEN HOYT'S SONS CO.
NEW CANAAN, CONN.

THE SOUTHERN HEMISPHERE IS CONNECTED WITH THE
NORTHERN HEMISPHERE IN NURSERY, SEED
AND FLORIST LINES, BY

The Australasian Nurseryman, Seedsman and Florist.

An INTERNATIONAL POCKET JOURNAL for all firms in the trade. It specially includes in its section AUSTRALIA, SOUTH AFRICA, NEW ZEELAND, ARGENTINA.

Guaranteed circulation to the WHOLE TRADE in these sections
Splendid advertising value to any wholesale firm
in any part of the world.

FOREIGN SUBSCRIPTION \$1.75. PAID IN ADVANCE.

It should be read by you and kept for reference. Address

The Australasian Nurseryman, Seedsman and Florist,
Head Office, 195 Collins St., Melbourne, Australia

The Ellisville Nursery Offers choice APPLE TREES at very reasonable prices. Special low prices on car lots.

A. WILMAS, PROPRIETOR

ELLISVILLE,

ST. LOUIS CO.,

MISSOURI

The Cureton Nurseries, Austell, Ga.

Offer at attractive prices Apple, Pear, Plum, Peach, Mulberry, Pecan, Eng. Walnut, Small Fruit Plants, Grape Vines, Scuppernong Vines, Amoor River Privet, Car-Poplars, Roses. 100 lbs. Stuart Pecan Seed.

Cut prices on large lots of June Budded and Year Old Peach.
Catalogue FREE.

JAMES CURETON, Prop.

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The Abilene Nurseries.

We have a fine lot of first class Nursery Stock to offer to the trade. Our Specialties: APPLE, PEACH, CHERRIES, PLUM, NECTARINE and FOREST TREE SEEDLINGS. We also have a big stock of three year old Forest Trees, Elm, Ash, Catalpa, Soft Maple and Honey Locust. We can furnish most anything in our line. Write for prices. We want your trade.

W. T. GOUGH, Prop. ABILENE, KANSAS.

20 000 Three Year Old Apple Trees, nice and smooth. Good Assortment.

The WILLADEAN NURSERIES

Offer a Large and General Assortment
of Stock for Fall 1904.

Special Prices will be made for Early Orders of the Following:

PEACH, APPLE, GRAPES, HYDRANGEAS,
P. G. SNOWBALLS, LILACS, SPIREA
and WEIGELIAS, ORNAMENTALS,
ROSES, FOREST TREE
SEEDLINGS.

TREE SEEDS IN SEASON.

WRITE FOR PRICES.

The Donaldson Co.,

Successors to
Donaldson & Gibson.

WARSAW, KY.

A BARGAIN

In STANDARD PEARS, extra size, 6
to 7 ft; 1 inch and up 5 to 6 ft; 3-4 and up.
Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buy-
ing elsewhere.

Address

Pioneer Nurseries Company,

Salt Lake City, Utah,

KIEFFER PEAR SEED

Fresh from the Cores.

Sample free

Thomas Meehan & Sons, Inc.,

Fruit Stocks and Seeds,

Dreshertown, Nursery Street, Pa.

GULF GYPRESS

Greenhouse Material

CUT AND SPLICED READY FOR ERECTION

Hot Bed Sash, Pipes, Fittings, Ventilating Apparatus



GLASS at Wholesale

Try our Seal Tight Liquid Putty

Sample Gallon, 75 cents

S. JACOBS & SONS

MANUFACTURERS

1365 to 1373 Flushing Avenue

BROOKLYN, N. Y.

We furnish everything for building.

Send for prices and catalogue

KANSAS CITY NURSERIES

A GENERAL LINE OF NURSERY

STOCK, WHOLESALE AND RETAIL

GRAPE VINES, a heavy stock of Concord and Moore's Early One
and Two years; Worden, Niagara, &c, One year. Small fruits—Rhubarb,
Asparagus, Ornamental Shrubs, Cal. Privet, &c.

We publish the best and cheapest 80 page Co-operative Illustrated Des-
criptive Catalogue in the market, of which we have just issued a new edition.

This is the great Railroad Center of the West, and we can ship direct
to almost any point without transfers.

BLAIR & KAUFMAN, - Kansas City, Mo.

Office: 233-34 Rialto Building.

GRAPE

ALL OLD AND NEW VARIETIES
Immense Stock Warranted True.

QUALITY UNSURPASSED.

A fine stock of Campbell's Early.

Catalogue and Price List Free.

Send list of wants for prices

An extra fine stock and full assort-
ment of varieties of CURRANTS and
GOOSEBERRIES; also BLACKBERRY
ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

We offer for Fall 1904 and Spring 1905

A FULL ASSORTMENT OF

Roses and Ornamental Shrubs

ALL FIELD GROWN.

Special inducements to those buying in large quantities

We make the growing of Roses a specialty and can take care
of any size order of the leading sorts of H. P.; Tea; Hybrid
Tea; Prairies; Mosses, Etc., Privet; Philadelphia; Althaea and
Spirea. Send for Wholesale List.

The United States Nursery Co.

RICH, COAHOMA COUNTY, MISS.

GRAPE VINES.

grade and prices. Write me before placing your order elsewhere. Samples mailed to Dealers and Nurserymen on request.

EUGENE WILLETT,

N. COLLINS, N. Y.

When writing to Advertisers mention The National Nurseryman.

Let us have your list of wants for our
lowest quotations. Our vines have made
strong growth. We can please you with

LEVAVASSEUR & SONS

Nurseries at USSY and ORLEANS, France.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country
All leading nurserymen are our regular customers. Prices Right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT,

Sole Agent for UNITED STATES AND CANADA.

60 Cortlandt St., NEW YORK.

WINFIELD NURSERIES

Branch Plants

WELLINGTON, KANSAS
ROCK, KANSAS

Special Grape Nurseries

Belle Plaine, Kansas

Forest Tree Seedlings,
APPLE SEEDLINGS.

Grape, Kieffer Pear.
GRAFTS Made to Order

COOPER & MONCRIEF, PROPS
WINFIELD, KANSAS

B. & A. SPECIALTIES

AUTUMN

Dutch, French, Japanese and Chinese Bulbs
Bay Trees, All Forms and Sizes
Boxwood, Pyramid, Standard and Bush
Pot Grown Strawberries and English Grape Vines
Roses for All Purposes
Forcing Plants, Lilac, Azaleas, Rhododendron, Etc.
Shade, Fruit and Ornamental Trees
Rhododendrons, Hardy Hybrids and Native Maxima
Palms, Araucarias, Aspidistras, Cycas, Etc.
Ferns, Boston and Other Kinds
Japanese Fern Ball in Leaf
Evergreens and Flowering Shrubs
Hardy Herbaceous Plants, Paeonias, Etc.
Clematis, English Ivy and Other Hardy Vines

Ask for Autumn Catalogues

Our 75 Acres of Nursery
are Always Interesting

BOBBINK & ATKINS

Nurserymen and Florists

Rutherford, New Jersey

When writing to Advertisers mention The National Nurseryman.

WE HAVE PRACTICALLY

"Everything in Small Fruit Plants"

At prices as low as good stock can be grown, we offer at a bargain during October and November

500,000 CURRANT CUTTINGS

Varieties Fays, Red Cross, Wilder, London Market, Victoria, N. Star, Red Dutch and Versailles.

In Novelties We Have Jap. Wine Berries, Logan Berries, Strawberries, Raspberries, Ever-Bearing Raspberry, Rocky Mountain Cherry, White Blackberries, Tree Currants, Etc., Etc. Price List Free.

W. N. SCARFF, NEW CARLISLE, O.

OUR NEW CATALOGUE

Quoting Prices for Fruit Tree Stocks :

300 Varieties of Conifers, 1 to 4 years old,
1200 " " Ornamental Trees and Shrubs, 1 to 3 years old,
1600 " " New and Old Ornamental Trees and Shrubs, in all sizes,
250 " " Climbing Plants,
400 " " Conifers, 1 to 4 feet high,
400 " " Perennials,
800 " " New and Old Roses,

has been distributed and will be sent free on application.
Write direct to us.

WE HAVE NO AGENTS

Trancon Bros.' and D. Dauvesse's Nurseries.

BARBIER & CO.

16 Route d'Olivet, ORLÉANS, France

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

Nurseries — Richmond, Va., and Wickham, Hanover Co. Va.

Offer for Fall 1904

California Privet, 1 and 2 yrs. old, Japan Plums on Plum, Cherry, 2 yrs., Peach Seedlings, Large Sugar Maples, Elms, and other Ornamental Stock.

We will have stock of N. C. and Tenn. Natural Peach Pits to offer for September and October.

WE WANT Apple and Pear for early Fall delivery, also Apple Seedlings.

When writing to Advertisers mention The National Nurseryman.

Apple Seedlings and Grafts

We have a large and extra fine stock of **Apple Seedlings**, and are prepared to make **Special Low Prices** on large lots for shipment from Topeka, Kansas, or Bridgeport, Ind. We also have a good supply of **Scions**, and a good force of **skilled workmen**, so that we can supply you.

Apple Grafts, Pear Grafts, Etc., put up in the best possible manner and in quantities to suit—whole root, piece root, or any style wanted.
Send in your lists and get prices. Order early.

For Spring 1905 Trade

we have in storage a fine general assortment of **Fruit and Ornamental Trees, Plants, Vines, Etc., Etc.**, making a complete stock, ready for shipment at any time wanted. Send in your want list and get prices, and place your orders early.

REMEMBER—we have the BEST SPADES on the market.

REMEMBER—EXCELSIOR is the best PACKING MATERIAL.

REMEMBER—also, BOX STRAPS, PEACH SEED, Etc.

ADDRESS

ALBERTSON & HOBBS, BRIDGEPORT,
MARION CO., IND.

Nine miles west of Indianapolis, on Indianapolis & Plainfield Trolley Line.

NEW TELEPHONE

Some Good, Sound Philosophy

FRUIT STOCKS

To buy stocks of questionable quality is to jeopardize the results of your labor, to say nothing of the cash expended. Don't stop at anything less than **the best!** Insist on getting the well-rooted healthy and stocky kind. The prudence may cost a trifle, but you'll find, when reaping the results, that it was the most satisfactory investment you ever made.

Our stocks have been grown in good soil, under ideal conditions and are offered with the assurance that they are **the best** obtainable.

We cannot emphasize too forcibly the advantage of ordering early.

FRUIT SEEDS

To obtain the best seeds requires even greater care than the selection of your seedlings, and no matter how keen your vigilance you must depend to no small degree upon the honesty of the seedman.

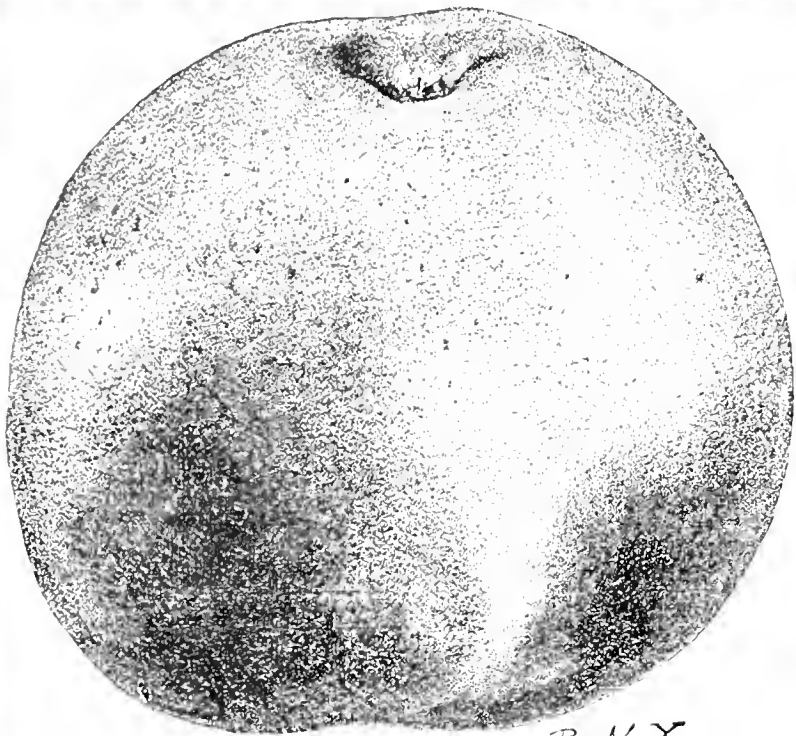
We're very particular about our seeds and make it a point to procure same from the best sources and to employ only reliable collectors. We never hesitate about paying more if it insures better quality. "The best is worth the difference" is our motto.

Send for "Fruit Stock and Seed List." It's free!

THOMAS MEEHAN & SONS, Inc.

Nursery Street

DRESHER TOWN, Pa.



Ready to Ship APPLE TREES

*Two and three year GRAFTS,
CLEAN, SMOOTH and HEALTHY.
No finer trees can be found and the
price is low considering quality.*

R.N.Y.
List of Varieties of Apples. The Ones Marked With "X" Are the Ones We Are Long On

Autumn Strawberry
Aiken
Arkansas Black
Alexander
American Golden Russett
Baldwin
xxxBen Davis
Bell de Boscoop
Belmont
Bailey's Sweet
Boiken
Benoni
Bismarck
Cole
Coffelet Beauty
Canada Red
Clark's Orange
Chase's Jelly
Cart House
xxDutchess
Detroit Red
Dominie
Early Pennock
Eusopus Spitzenburg
Early Colton
xxEarly Harvest
xFallawater
Flora Bell
Fourth of July
Fameuse
Fall Pippin
Fays
xGrimes' Golden
xxxGano
Gen. Grant
Golden Sweet
Grindstone
Gravenstein
Huntsman's Favorite
xHubbardston's Nonsuch
xHaas
Hurlburt
Hyslop
Hibernal
Iowa Blush
Ingram
Jonathan
Jersey Sweet
Jeffries
Jacob's Sweet
xxKing
Kentucky Red Streak
Kennard's Choice
Lowell
xLoy
Longfield
Lansingburg
xLawyer
xLankford Seeding
xxM. B. Twig
xMaiden's Blush
xMo. Pippin
McIntosh Red

SURPLUS LIST

We have a little surplus in a few varieties as follows:

	³ / ₁ 5 to 7 ft.	⁵ / ₁ 5 to 6 ft.	^{1 1} / ₄ 4 to 6 ft.	¹ / ₂ 4 to 5 ft.	³ / ₄ 3 to 4 ft.
Baldwin	1000	3000	3000	3000	1000
Ben Davis	15000	5000	5000	4000	1000
Stark	1000	5000	3000	3000	2000
York Imperial	1000	4000	4000	4000	2000
M. B. Twig	1000	1000	1000	1000	1000
N. W. Greening	15000	10000	5000	2000	1000
Grimes Golden	500	500	500	500	500
Gano	1000	1000	1000	1000	1000
King	500	500	500	500	500
Lankford Seedling	500	500	500	500	500
Pewaukee	—	500	500	500	500
R. I. Greening	1000	1000	1000	1000	1000
Winesap	1000	1000	1000	1000	1000

In addition to this we have small quantities of other varieties. We have a surplus in peach of Crawford Late and Chri's Choice; also

5,000 Keiffer pear trees 4 and up.

1,000 Keiffer pear trees 3 to 3-4.

Black Walnuts 4 to 5 ft. Norway Maples 7 to 8 ft. and 8 to 10 ft. Silver Maples 6 to 7 ft 7 to 8 ft. and 8 to 10 ft. Carolina Poplars 6 to 7 ft. to 8 ft. and 8 to 10 ft.

PEACH TREES

General List of Varieties, Grown on Virgin Soil

CLEAN, SMOOTH AND HEALTHY

KIEFFER PEAR TREES

Grafted on French Root

WILL QUOTE PRICES ON APPLICATION.

PERSONAL INSPECTION INVITED.

J. C. HARRISON & SONS
Berlin, Md.

Montreal Beauty
Milan
xMann
Minkler
Martha
xxxN. W. Greening
Newtown Pippin
xNorthern Spy
Nero
Ohio Nonpareil
Porter
Pound Sweet
Price's Sweet
Peck's Pleasant
Primate
Plum Cider
xPewaukee
xR. I. Greening
xxRome Beauty
Roxbury Russett
xRed Astrachan
Red June
Roman Stem
Rawles' Janet
Rolfe
Romanite
Red Beiteigheimer
xxStark
Stayman's Wine Sap
Summer Rambo
xSutton's Beauty
Salome
Seek No Further
Shackelford
Swaar
Scott's Winter
Stewart's Golden
Starr
xSmith's Cider
xTwenty Ounce
Talpehocken
Transcendent
xTallman's Sweet
Utter's Red
Virginia Beauty
Vandevere Pippin
White Arctic
Winter Banana
W. S. Paradise
Wealthy
Wolf River
Whitney
xWagner
xWinter Rambo
Walbridge
Winter Blush
Wisner
xWillow Twig
xWine Sap
White Pippin
xYork Imperial
xxYellow Transparent
xYellow Bellflower

